



## **ANALYTICAL DATA REPORT**

JMC Environmental Consultants  
2109 Bridge Avenue  
Building B  
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**  
IAL Case Number: **E13-10227**

These data have been reviewed and accepted by:

A handwritten signature in black ink, appearing to read "Michael H. Lefkin".

Michael H. Lefkin, Ph.D.  
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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IAL is a NELAC New Jersey Certified Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Rhode Island (00126), Pennsylvania (68-00773) and in the Department of Navy IR QA Program

# *Sample Summary*

*IAL Case No.*

**E13-10227**

*Client* JMC Environmental Consultants

*Project* ARSYNCO

*Received On* 10/15/2013@16:30

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
10227-001	KK-32(4.0-5.0)	4.0/5.0	10/15/2013@09:50	Soil	1
10227-002	KK-37W(0-1.0)	0/1.0	10/15/2013@10:09	Soil	1
10227-003	KK-37W(1.0-2.0)	1.0/2.0	10/15/2013@10:10	Soil	1
10227-004	KK-37W(2.0-3.0)	2.0/3.0	10/15/2013@10:11	Soil	1
10227-005	HH-37E(2.0-3.0)	2.0/3.0	10/15/2013@11:16	Soil	1
10227-006	II-43(0-1.0)	0/1.0	10/15/2013@12:15	Soil	1
10227-007	II-43(1.0-2.0)	1.0/2.0	10/15/2013@12:16	Soil	1
10227-008	GG-45(0-1.0)	0/1.0	10/15/2013@13:55	Soil	1
10227-009	GG-45(1.0-2.0)	1.0/2.0	10/15/2013@13:56	Soil	1
10227-010	HH-45(0-1.0)	0/1.0	10/15/2013@14:12	Soil	1
10227-011	HH-45(1.0-2.0)	1.0/2.0	10/15/2013@14:13	Soil	1
10227-012	HH-44(0-1.0)	0/1.0	10/15/2013@14:26	Soil	1
10227-013	HH-44(1.0-2.0)	1.0/2.0	10/15/2013@14:27	Soil	1
10227-014	FB-22	n/a	10/15/2013@14:45	Aqueous	2

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on October 29, 2013

\* Methodology is included in the IAL Project Information Page

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## DEFINITIONS / QUALIFIERS

### DATA QUALIFIERS

- B** Indicates the analyte was found in the associated method blank as well as in the sample.  
It indicates probable laboratory contamination.
- C** Indicates analyte is a common laboratory contaminant.
- D** Indicated analyte was reported from diluted analysis.
- E** Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument for that specific analysis.
- J** Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL.

### REPORTING DEFINITIONS

**RL** Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.

**MDL** Method Detection Limit as determined according to 40CFR Part 136 Appendix B.

**PQL** Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.

**ND** Indicates analyte was analyzed for but not detected above the MDL.

**DF** Dilution Factor

**LCS** Laboratory Control Sample

**LCSD** Laboratory Control Sample Duplicate

**MS** Matrix Spike

**MSD** Matrix Spike Duplicate

**DUP** Duplicate

## **CONFORMANCE / NON-CONFORMANCE SUMMARIES**

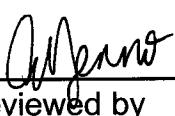
**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

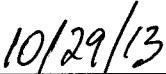
**CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received one (1) aqueous and thirteen (13) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-10227, Project: ARSYNCO) on October 15, 2013 for the analysis of:

(14) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

  
Reviewed by

  
Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-10227**

PCB By 8082A

**Batch ID: 131021-17**

**Matrix: Aqueous**

**QC**

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 014
- The following samples were cleaned up using method 3665A: 014

**E13-10227**

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for sample 10227 -014.



10/23/2013

Signature

Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-10227

PCB By 8082A

<b>Batch ID:</b> 131021-05	<b>Matrix:</b> Soil
----------------------------	---------------------

- QC**
- Calibration Curve met QC criteria.
  - Surrogate Percent Recovery met QC criteria.
  - Method Blank met QC criteria.
  - LCS Percent Recovery met QC criteria.
  - MS/MSD Percent Recovery met QC criteria.
  - RPD between MS/MSD met QC criteria.
  - The RPD between the primary and secondary column was >40% for the following samples: 10227 -013. Per SW-846 8000C, the lower of the two concentrations was reported.
  - The following samples were cleaned up using method 3660B to remove sulfur: 011, 012, 013
- E13-10227**
- All samples were extracted within holding time.
  - All samples were analyzed within holding time.
  - Retention Time Shift met QC criteria.
  - Sample 10227 -012 was run with 5x dilution due to potential matrix interference due to sample color. Sample 10227 -013 was run with 10x dilution due to a high concentration of the target compound. No dilution was performed for sample 10227 -011.

  
Nicolle Lamm  
Signature

10/23/2013

Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-10227**

PCB By 8082A

<b>Batch ID:</b> 131018-14	<b>Matrix:</b> Soil
----------------------------	---------------------

- QC**
- Calibration Curve met QC criteria.
  - Surrogate Percent Recovery met QC criteria.
  - Method Blank met QC criteria.
  - LCS Percent Recovery met QC criteria.
  - MS/MSD Percent Recovery met QC criteria.
  - RPD between MS/MSD met QC criteria.
  - The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010
- E13-10227**
- All samples were extracted within holding time.
  - All samples were analyzed within holding time.
  - Retention Time Shift met QC criteria.
  - Sample 10227 -002 was run with 2x dilution and sample -007 with 5x dilution due to high concentrations of the target compounds. No dilution was performed for samples -001, -003, -004, -005, -006, -008, -009, -010.

 10/23/2013  
Signature Date

## **RESULTS SUMMARY REPORT**

E13-10227 0007

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**

**Client: JMC Environmental Consultants  
Project: ARSYNCO  
Lab Case No.: E13-10227**

<b>Lab ID:</b>	10227-014										
<b>Client ID:</b>	FB-22										
<b>Matrix:</b>	Aqueous										
<b>Sampled Date</b>	10/15/13	Conc	Q	MDL							
<b>PARAMETER(Units)</b>	<i>(mg/L-ppm)</i>										
PCB's (Units)											
Aroclor-1016	ND	0.00002									
Aroclor-1221	ND	0.00002									
Aroclor-1232	ND	0.00002									
Aroclor-1242	ND	0.00002									
Aroclor-1248	ND	0.00002									
Aroclor-1254	ND	0.00002									
Aroclor-1260	ND	0.00002									
Aroclor-1262	ND	0.00002									
Aroclor-1268	ND	0.00002									
PCBs	ND										
<b>Lab ID:</b>	10227-001	<b>10227-002</b>	<b>10227-003</b>	<b>10227-004</b>							
<b>Client ID:</b>	KK-32(4.0-5.0)	KK-37W(0-1.0)	KK-37W(1.0-2.0)	KK-37W(2.0-3.0)							
<b>Depth:</b>	4.0/5.0	0/1.0	1.0/2.0	2.0/3.0							
<b>Matrix:</b>	Soil	Soil	Soil	Soil							
<b>Sampled Date</b>	10/15/13	10/15/13	10/15/13	10/15/13							
<b>PARAMETER(Units)</b>	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL		
PCB's (Units)	<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>				
Aroclor-1016	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1221	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1232	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1242	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1248	0.153	0.018	44.1 D	0.161	0.957	0.087	ND			ND	0.079
Aroclor-1254	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1260	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1262	ND	0.018		ND	0.161		ND	0.087		ND	0.079
Aroclor-1268	ND	0.018		ND	0.161		ND	0.087		ND	0.079
PCBs	0.153		44.1 D		0.957					ND	

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**  
**Client: JMC Environmental Consultants**  
**Project: ARSYNCO**  
**Lab Case No.: E13-10227**

PARAMETER(Units)	Lab ID:	10227-005	10227-006	10227-007	10227-008							
	Client ID:	HH-37E(2.0-3.0)	II-43(0-1.0)	II-43(1.0-2.0)	GG-45(0-1.0)							
	Depth:	2.0/3.0	0/1.0	1.0/2.0	0/1.0							
	Matrix:	Soil	Soil	Soil	Soil							
	Sampled Date	10/15/13	10/15/13	10/15/13	10/15/13							
PCB's (Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1221	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1232	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1242	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1248	0.647	0.022		8.86	0.056	9.88	D	0.100		6.34	0.060	
Aroclor-1254	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1260	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1262	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
Aroclor-1268	ND	0.022		ND	0.056		ND	0.020		ND	0.060	
PCBs	0.647			8.86		9.88	D			6.34		
PARAMETER(Units)	Lab ID:	10227-009	10227-010	10227-011	10227-012							
	Client ID:	GG-45(1.0-2.0)	HH-45(0-1.0)	HH-45(1.0-2.0)	HH-44(0-1.0)							
	Depth:	1.0/2.0	0/1.0	1.0/2.0	0/1.0							
	Matrix:	Soil	Soil	Soil	Soil							
	Sampled Date	10/15/13	10/15/13	10/15/13	10/15/13							
PCB's (Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor-1016	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1221	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1232	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1242	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1248	ND	0.077		1.50	0.037	0.101	0.023		6.92	D	0.293	
Aroclor-1254	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1260	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1262	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
Aroclor-1268	ND	0.077		ND	0.037		ND	0.023		ND	0.293	
PCBs	ND			1.50		0.101			6.92	D		
PARAMETER(Units)	Lab ID:	10227-013										
	Client ID:	HH-44(1.0-2.0)										
	Depth:	1.0/2.0										
	Matrix:	Soil										
	Sampled Date	10/15/13										
PCB's (Units)	Conc	Q	MDL									
Aroclor-1016	ND	0.157										
Aroclor-1221	ND	0.157										
Aroclor-1232	ND	0.157										
Aroclor-1242	ND	0.157										
Aroclor-1248	39.6	D	0.315									
Aroclor-1254	ND	0.157										
Aroclor-1260	ND	0.157										
Aroclor-1262	ND	0.157										
Aroclor-1268	ND	0.157										
PCBs	39.6	D										

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

## **ANALYTICAL RESULTS**

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-001  
Client ID: KK-32(4)  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2357.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.50g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 19.9

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.045	0.018
Aroclor-1221	ND		0.045	0.018
Aroclor-1232	ND		0.045	0.018
Aroclor-1242	ND		0.045	0.018
Aroclor-1248	0.153		0.045	0.018
Aroclor-1254	ND		0.045	0.018
Aroclor-1260	ND		0.045	0.018
Aroclor-1262	ND		0.045	0.018
Aroclor-1268	ND		0.045	0.018
PCBs	0.153		0.045	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-002  
Client ID: KK-37W(0)  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2387.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.00g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 2  
% Moisture: 80.1

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.402	0.161
Aroclor-1221	ND		0.402	0.161
Aroclor-1232	ND		0.402	0.161
Aroclor-1242	ND		0.402	0.161
Aroclor-1248	44.1	D	0.402	0.161
Aroclor-1254	ND		0.402	0.161
Aroclor-1260	ND		0.402	0.161
Aroclor-1262	ND		0.402	0.161
Aroclor-1268	ND		0.402	0.161
PCBs	44.1	D	0.402	0.161

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-003  
Client ID: KK-37W(1)  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2359.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.00g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 81.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.217	0.087
Aroclor-1221	ND		0.217	0.087
Aroclor-1232	ND		0.217	0.087
Aroclor-1242	ND		0.217	0.087
Aroclor-1248	0.957		0.217	0.087
Aroclor-1254	ND		0.217	0.087
Aroclor-1260	ND		0.217	0.087
Aroclor-1262	ND		0.217	0.087
Aroclor-1268	ND		0.217	0.087
PCBs	0.957		0.217	0.087

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-004  
Client ID: KK-37W(2)  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2360.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.20g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 80.4

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.196	0.079
Aroclor-1221	ND		0.196	0.079
Aroclor-1232	ND		0.196	0.079
Aroclor-1242	ND		0.196	0.079
Aroclor-1248	ND		0.196	0.079
Aroclor-1254	ND		0.196	0.079
Aroclor-1260	ND		0.196	0.079
Aroclor-1262	ND		0.196	0.079
Aroclor-1268	ND		0.196	0.079
PCBs	ND		0.196	0.079

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-005  
Client ID: HH-37E(2)  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2361.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.50g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 34.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.056	0.022
Aroclor-1221	ND		0.056	0.022
Aroclor-1232	ND		0.056	0.022
Aroclor-1242	ND		0.056	0.022
Aroclor-1248	0.647		0.056	0.022
Aroclor-1254	ND		0.056	0.022
Aroclor-1260	ND		0.056	0.022
Aroclor-1262	ND		0.056	0.022
Aroclor-1268	ND		0.056	0.022
PCBs	0.647		0.056	0.022

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-006  
Client ID: II-43(0-  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2362.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.40g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 73.4

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.139	0.056
Aroclor-1221	ND		0.139	0.056
Aroclor-1232	ND		0.139	0.056
Aroclor-1242	ND		0.139	0.056
Aroclor-1248	8.86		0.139	0.056
Aroclor-1254	ND		0.139	0.056
Aroclor-1260	ND		0.139	0.056
Aroclor-1262	ND		0.139	0.056
Aroclor-1268	ND		0.139	0.056
PCBs	8.86		0.139	0.056

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-007

Client ID: II-43(1).

Date Received: 10/15/2013

Date Extracted: 10/18/2013

Date Analyzed: 10/22/2013

Data file: Y2363.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.60g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: 28.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	12.8	E	0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	12.8	E	0.050	0.020

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-007DL  
Client ID: II-43(1.  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2388.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.60g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 5  
% Moisture: 28.5

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.250	0.100
Aroclor-1221	ND		0.250	0.100
Aroclor-1232	ND		0.250	0.100
Aroclor-1242	ND		0.250	0.100
Aroclor-1248	9.88	D	0.250	0.100
Aroclor-1254	ND		0.250	0.100
Aroclor-1260	ND		0.250	0.100
Aroclor-1262	ND		0.250	0.100
Aroclor-1268	ND		0.250	0.100
PCBs	9.88	D	0.250	0.100

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-008  
Client ID: GG-45(0-  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2364.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.10g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 73.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.150	0.060
Aroclor-1221	ND		0.150	0.060
Aroclor-1232	ND		0.150	0.060
Aroclor-1242	ND		0.150	0.060
Aroclor-1248	6.34		0.150	0.060
Aroclor-1254	ND		0.150	0.060
Aroclor-1260	ND		0.150	0.060
Aroclor-1262	ND		0.150	0.060
Aroclor-1268	ND		0.150	0.060
PCBs	6.34		0.150	0.060

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-009

Client ID: GG-45(1)

Date Received: 10/15/2013

Date Extracted: 10/18/2013

Date Analyzed: 10/22/2013

Data file: Y2365.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.00g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: 79.3

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.193	0.077
Aroclor-1221	ND		0.193	0.077
Aroclor-1232	ND		0.193	0.077
Aroclor-1242	ND		0.193	0.077
Aroclor-1248	ND		0.193	0.077
Aroclor-1254	ND		0.193	0.077
Aroclor-1260	ND		0.193	0.077
Aroclor-1262	ND		0.193	0.077
Aroclor-1268	ND		0.193	0.077
PCBs	ND		0.193	0.077

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-010  
Client ID: HH-45(0-  
Date Received: 10/15/2013  
Date Extracted: 10/18/2013  
Date Analyzed: 10/22/2013  
Data file: Y2366.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.50g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 60.5

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.092	0.037
Aroclor-1221	ND		0.092	0.037
Aroclor-1232	ND		0.092	0.037
Aroclor-1242	ND		0.092	0.037
Aroclor-1248	1.50		0.092	0.037
Aroclor-1254	ND		0.092	0.037
Aroclor-1260	ND		0.092	0.037
Aroclor-1262	ND		0.092	0.037
Aroclor-1268	ND		0.092	0.037
PCBs	1.50		0.092	0.037

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-011

Client ID: HH-45(1)

Date Received: 10/15/2013

Date Extracted: 10/21/2013

Date Analyzed: 10/22/2013

Data file: Y2393.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.20g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: 31.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.056	0.023
Aroclor-1221	ND		0.056	0.023
Aroclor-1232	ND		0.056	0.023
Aroclor-1242	ND		0.056	0.023
Aroclor-1248	0.101		0.056	0.023
Aroclor-1254	ND		0.056	0.023
Aroclor-1260	ND		0.056	0.023
Aroclor-1262	ND		0.056	0.023
Aroclor-1268	ND		0.056	0.023
PCBs	0.101		0.056	0.023

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-012

Client ID: HH-44(0-

Date Received: 10/15/2013

Date Extracted: 10/21/2013

Date Analyzed: 10/22/2013

Data file: Y2394.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.79g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 5

% Moisture: 76.4

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.732	0.293
Aroclor-1221	ND		0.732	0.293
Aroclor-1232	ND		0.732	0.293
Aroclor-1242	ND		0.732	0.293
Aroclor-1248	6.92	D	0.732	0.293
Aroclor-1254	ND		0.732	0.293
Aroclor-1260	ND		0.732	0.293
Aroclor-1262	ND		0.732	0.293
Aroclor-1268	ND		0.732	0.293
PCBs	6.92	D	0.732	0.293

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL &amp; great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-013  
Client ID: HH-44(1.  
Date Received: 10/15/2013  
Date Extracted: 10/21/2013  
Date Analyzed: 10/22/2013  
Data file: Y2395.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.36g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 5  
% Moisture: 52.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.394	0.157
Aroclor-1221	ND		0.394	0.157
Aroclor-1232	ND		0.394	0.157
Aroclor-1242	ND		0.394	0.157
Aroclor-1248	92.9	DE	0.394	0.157
Aroclor-1254	ND		0.394	0.157
Aroclor-1260	ND		0.394	0.157
Aroclor-1262	ND		0.394	0.157
Aroclor-1268	ND		0.394	0.157
PCBs	92.9	DE	0.394	0.157

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-013DL  
Client ID: HH-44(1.  
Date Received: 10/15/2013  
Date Extracted: 10/21/2013  
Date Analyzed: 10/23/2013  
Data file: Y2437.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.36g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 10  
% Moisture: 52.6

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.787	0.315
Aroclor-1221	ND		0.787	0.315
Aroclor-1232	ND		0.787	0.315
Aroclor-1242	ND		0.787	0.315
Aroclor-1248	39.6	D	0.787	0.315
Aroclor-1254	ND		0.787	0.315
Aroclor-1260	ND		0.787	0.315
Aroclor-1262	ND		0.787	0.315
Aroclor-1268	ND		0.787	0.315
PCBs	39.6	D	0.787	0.315

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: E13-10227-014

Client ID: FB-22

Date Received: 10/15/2013

Date Extracted: 10/21/2013

Date Analyzed: 10/22/2013

Data file: Y2413.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous-mg/L (ppm)

Dilution Factor: 1

% Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**PCB DATA**

## **PCB QC SUMMARY**

## PCB SURROGATE PERCENT RECOVERY SUMMARY

**Date Analyzed:** 10/21/2013

<b>Client ID</b>	<b>Sample ID</b>	<b>Matrix</b>	<b>Lab</b>		<b>TCMX 1</b>		<b>DCB 1</b>		<b>TCMX 2</b>		<b>DCB 2</b>	
			% rec	#	% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131018-14	SOIL	89		75		92		91			
PCB	LCSS131018-14	SOIL	92		87		95		91			
SS-1/1-2	E13-10170-001	SOIL	96		108		101		138			
PCB	10170-001MS	SOIL	90		72		93		90			
PCB	10170-001MSD	SOIL	92		79		96		99			
HLR-70-1	E13-10276-001	SOLID	85		82		86		98			
HLR-70-1	E13-10276-002	SOLID	80		82		85		111			
HLR-70-1	E13-10276-003	SOLID	80		79		88		96			
HLR-70-1	E13-10276-004	SOLID	82		79		92		101			
HLR-70-1	E13-10276-005	SOLID	69		91		74		122			
SW-203C	E13-10225-007	SOIL	89		92		92		112			
SW-204A	E13-10225-008	SOIL	95		96		101		118			
SW-204B	E13-10225-009	SOIL	93		84		97		111			
B-205	E13-10225-010	SOIL	99		95		103		117			
KK-32(4.	E13-10227-001	SOIL	101		79		107		97			
KK-37W(1	E13-10227-003	SOIL	123		107		134		138			
KK-37W(2	E13-10227-004	SOIL	123		97		135		123			
HH-37E(2	E13-10227-005	SOIL	100		80		109		97			
II-43(0-	E13-10227-006	SOIL	118		102		128		134			
II-43(1.	E13-10227-007	SOIL	81		78		92		98			
GG-45(0-	E13-10227-008	SOIL	121		123		131		140			
GG-45(1.	E13-10227-009	SOIL	129		137		144		145			
HH-45(0-	E13-10227-010	SOIL	120		122		129		133			
KK-37W(0	E13-10227-002	SOIL	129		113		140		143			
II-43(1.	E13-10227-007DL	SOIL	108		89		110		114			

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

**Soil**

**Aqueous**

30-150

30-150

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

## PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/22/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA131021-17	AQUEOUS	88		79		95		90	
PCB	LCSA131021-17	AQUEOUS	85		85		90		88	
OUTFALL	E13-10256-001	WASTE WATER	71		69		75		100	
FB-21	E13-10192-011	AQUEOUS	88		75		94		88	
FB-22	E13-10227-014	AQUEOUS	91		75		97		103	
PCB	E13-10256-001MS	WASTE WATER	78		85		84		103	
PCB	E13-10256-001MS	WASTE WATER	74		74		80		93	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

30-150

Aqueous

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

# PCB SURROGATE PERCENT RECOVERY SUMMARY

**Date Analyzed:** 10/22/2013

<b>Client ID</b>	<b>Sample ID</b>	<b>Lab</b>	<b>TCMX 1</b>		<b>DCB 1</b>		<b>TCMX 2</b>		<b>DCB 2</b>	
			<b>% rec</b>	<b>#</b>	<b>% rec</b>	<b>#</b>	<b>% rec</b>	<b>#</b>	<b>% rec</b>	<b>#</b>
PCB	BLKS131021-05	SOIL	97		76		103		93	
PCB	LCSS131021-05	SOIL	93		74		99		87	
HLR-126T	E13-10278-001	SOLID	89		70		95		86	
PCB	10278-001MS	SOLID	87		72		93		87	
PCB	10278-001MSD	SOLID	89		75		95		88	
MICH01	E13-10390-001	SOIL	79		80		82		95	
MICH02	E13-10390-002	SOIL	73		68		77		85	
MICH03	E13-10390-003	SOIL	86		69		91		87	
HH-45(1.	E13-10227-011	SOIL	97		74		103		91	
HH-44(0-	E13-10227-012	SOIL	119		121		126		109	
HH-44(1.	E13-10227-013	SOIL	127		89		106		113	
HLR-126T	E13-10278-002	SOLID	90		67		95		94	
HLR-126T	E13-10278-003	SOLID	89		69		94		86	
HLR-85C-	E13-10277-001	SOLID	88		66		106		99	
HLR-85C-	E13-10277-002	SOLID	86		73		91		89	
HLR-85C-	E13-10277-003	SOLID	89		72		95		88	
C-101	E13-10293-001	SOLID	67		59		72		75	
C-102	E13-10293-002	SOLID	66		127		74		79	
C-103	E13-10293-003	SOLID	67		83		72		121	
C-104	E13-10293-004	SOLID	65		77		72		83	
C-105	E13-10293-005	SOLID	84		69		90		89	
C-106	E13-10293-006	SOLID	68		75		74		84	
C-107	E13-10293-007	SOLID	86		70		91		89	
HH-44(1.	E13-10227-013DL	SOIL	141		97		118		123	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

30-150

Aqueous

30-150

30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

# SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSS131018-14

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	430.4	86	40 - 140
Aroclor-1260	500.0	0.0	475.2	95	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

# AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID:

LCSA131021-17

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	402.0	80	40 - 140
Aroclor-1260	500.0	0.0	430.1	86	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

# SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID:

LCSS131021-05

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	455.9	91	40 - 140
Aroclor-1260	500.0	0.0	454.6	91	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

# SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-10170-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	392.3	78	40 - 140
Aroclor-1260	500.0	0.0	429.6	86	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	432.9	87	11	50	40 - 140
Aroclor-1260	0.0	462.2	92	7	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

# AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-10256-001

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	412.4	82	40 - 140
Aroclor-1260	500.0	0.0	447.4	89	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	383.8	77	6	50	40 - 140
Aroclor-1260	0.0	426.8	85	5	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

# SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-10278-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	432.2	86	40 - 140
Aroclor-1260	500.0	0.0	442.8	89	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	438.3	88	2	50	40 - 140
Aroclor-1260	0.0	457.5	92	3	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y2342.D      Instrument ID: GC-Y  
Date Extracted: 10/18/2013      Matrix: SOIL  
Date Analyzed: 10/21/2013      Time Analyzed: 21:32

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSS131018-14	10/21/2013	21:50
SS-1/1-2	E13-10170-001	10/21/2013	22:07
PCB	10170-001MS	10/21/2013	22:24
PCB	10170-001MSD	10/21/2013	22:42
HLR-70-1	E13-10276-001	10/21/2013	22:59
HLR-70-1	E13-10276-002	10/21/2013	23:16
HLR-70-1	E13-10276-003	10/21/2013	23:34
HLR-70-1	E13-10276-004	10/21/2013	23:51
HLR-70-1	E13-10276-005	10/22/2013	00:09
SW-203C	E13-10225-007	10/22/2013	00:26
SW-204A	E13-10225-008	10/22/2013	00:43
SW-204B	E13-10225-009	10/22/2013	01:01
B-205	E13-10225-010	10/22/2013	01:18
KK-32(4.	E13-10227-001	10/22/2013	03:02
KK-37W(1	E13-10227-003	10/22/2013	03:37
KK-37W(2	E13-10227-004	10/22/2013	03:54
HH-37E(2	E13-10227-005	10/22/2013	04:12
II-43(0-	E13-10227-006	10/22/2013	04:29
II-43(1.	E13-10227-007	10/22/2013	04:46
GG-45(0-	E13-10227-008	10/22/2013	05:04
GG-45(1.	E13-10227-009	10/22/2013	05:21
HH-45(0-	E13-10227-010	10/22/2013	05:38
KK-37W(0	E13-10227-002	10/22/2013	14:00
II-43(1.	E13-10227-007DL	10/22/2013	14:17

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y2409.D

Instrument ID: GC-Y

Date Extracted: 10/21/2013

Matrix: AQUEOUS

Date Analyzed: 10/22/2013

Time Analyzed: 21:25

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSA131021-17	10/22/2013	21:43
OUTFALL	E13-10256-001	10/22/2013	22:00
FB-21	E13-10192-011	10/22/2013	22:17
FB-22	E13-10227-014	10/22/2013	22:35
PCB	E13-10256-001MS	10/22/2013	22:52
PCB	E13-10256-001MSD	10/22/2013	23:09

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y2367.D      Instrument ID: GC-Y

Date Extracted: 10/21/2013      Matrix: SOIL

Date Analyzed: 10/22/2013      Time Analyzed: 07:05

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSS131021-05	10/22/2013	07:22
HLR-126T	E13-10278-001	10/22/2013	07:40
PCB	10278-001MS	10/22/2013	07:57
PCB	10278-001MSD	10/22/2013	08:14
MICH01	E13-10390-001	10/22/2013	14:52
MICH02	E13-10390-002	10/22/2013	15:09
MICH03	E13-10390-003	10/22/2013	15:27
HH-45(1.	E13-10227-011	10/22/2013	15:44
HH-44(0-	E13-10227-012	10/22/2013	16:02
HH-44(1.	E13-10227-013	10/22/2013	16:19
HLR-126T	E13-10278-002	10/22/2013	16:36
HLR-126T	E13-10278-003	10/22/2013	16:54
HLR-85C-	E13-10277-001	10/22/2013	17:21
HLR-85C-	E13-10277-002	10/22/2013	17:39
HLR-85C-	E13-10277-003	10/22/2013	17:56
C-101	E13-10293-001	10/22/2013	18:14
C-102	E13-10293-002	10/22/2013	18:31
C-103	E13-10293-003	10/22/2013	18:48
C-104	E13-10293-004	10/22/2013	19:06
C-105	E13-10293-005	10/22/2013	19:23
C-106	E13-10293-006	10/22/2013	19:41
C-107	E13-10293-007	10/22/2013	19:58
HH-44(1.	E13-10227-013DL	10/23/2013	09:19

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.23	3.23	3.23	3.23	3.23	3.23	3.16	3.30
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.60	4.60	4.60	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.22				3.15	3.29
Aroclor-1221 {5}			3.81				3.74	3.88
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
Aroclor-1248			4.45				4.37	4.53
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			5.99				5.91	6.07
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.99				6.90	7.08
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.26	8.26	8.26	8.26	8.26	7.36	9.16
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.93	8.94	8.04	9.84
Aroclor-1260 {3}	9.41	9.41	9.41	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.89	9.89	9.89	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.95	10.95	10.95	10.95	10.95	10.05	11.85

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	464323	441679	382895	349177	333589	394332	14.46
Aroclor-1016 {2}	631313	643566	521731	477189	458454	546451	15.79
Aroclor-1016 {3}	806143	774449	662509	606621	589177	687780	14.26
Aroclor-1016 {4}	363540	363516	332688	305606	289774	331025	10.09
Aroclor-1016 {5}	628860	642038	551930	503774	487757	562872	12.52
Aroclor-1221			199877				
Aroclor-1221 {2}			313557				
Aroclor-1221 {3}			198732				
Aroclor-1221 {4}			681302				
Aroclor-1221 {5}			164392				
Aroclor-1232			508390				
Aroclor-1232 {2}			304333				
Aroclor-1232 {3}			272852				
Aroclor-1232 {4}			292921				
Aroclor-1232 {5}			379208				
Aroclor-1242			445331				
Aroclor-1242 {2}			289404				
Aroclor-1242 {3}			394283				
Aroclor-1242 {4}			595594				
Aroclor-1242 {5}			525307				
Aroclor-1248			1072563				
Aroclor-1248 {2}			618287				
Aroclor-1248 {3}			795414				
Aroclor-1248 {4}			1263310				
Aroclor-1248 {5}			998553				
Aroclor-1254			1250957				
Aroclor-1254 {2}			821044				
Aroclor-1254 {3}			1480779				
Aroclor-1254 {4}			1606933				
Aroclor-1254 {5}			1429697				
Aroclor-1260	1799563	1887490	1561779	1407648	1377152	1606726	14.27
Aroclor-1260 {2}	884011	896189	732678	641350	641368	759119	16.51
Aroclor-1260 {3}	2064481	2110924	1815054	1604501	1536563	1826305	14.25
Aroclor-1260 {4}	982911	1147466	964107	838195	828743	952284	13.64
Aroclor-1260 {5}	415694	477377	462681	369882	339327	412992	14.28
Average %RSD						14.01	

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.76	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.36	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.39
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.77				3.70	3.84
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.24				6.17	6.31
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.24				6.16	6.32
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.09				7.01	7.17
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.29				8.20	8.38
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.85	7.85	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.11	8.11	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.20	10.20	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File:

Y1850.C   Y1849.C   Y1848.C   Y1847.C   Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	840261	856585	714298	646843	597927	731183	15.71
Aroclor-1016 {2}	1833596	1816776	1547682	1378645	1353928	1586125	14.54
Aroclor-1016 {3}	4371716	4236799	3569561	3258945	3150851	3717574	15.04
Aroclor-1016 {4}	1871668	1849704	1597815	1454198	1410182	1636714	13.20
Aroclor-1016 {5}	1442767	1421476	1238979	1138128	1115123	1271295	12.13
Aroclor-1221			340703				
Aroclor-1221 {2}			617655				
Aroclor-1221 {3}			417322				
Aroclor-1221 {4}			1522237				
Aroclor-1221 {5}			291032				
Aroclor-1232			973678				
Aroclor-1232 {2}			425526				
Aroclor-1232 {3}			940006				
Aroclor-1232 {4}			735287				
Aroclor-1232 {5}			1002709				
Aroclor-1242			611221				
Aroclor-1242 {2}			1032956				
Aroclor-1242 {3}			1271440				
Aroclor-1242 {4}			1106793				
Aroclor-1242 {5}			2184386				
Aroclor-1248			2396754				
Aroclor-1248 {2}			3539345				
Aroclor-1248 {3}			2550731				
Aroclor-1248 {4}			2230079				
Aroclor-1248 {5}			1294923				
Aroclor-1254			2883717				
Aroclor-1254 {2}			2180898				
Aroclor-1254 {3}			1865030				
Aroclor-1254 {4}			1138169				
Aroclor-1254 {5}			2980480				
Aroclor-1260	1380266	1597791	1348190	1285120	1250722	1372418	9.90
Aroclor-1260 {2}	2170235	2320146	1904498	1826388	1764884	1997230	11.90
Aroclor-1260 {3}	1830758	1876902	1742155	1590179	1579596	1723918	7.88
Aroclor-1260 {4}	3775292	4234437	3909868	3531301	3570473	3804274	7.51
Aroclor-1260 {5}	2569926	3071676	2828424	2567649	2559367	2719408	8.36

Average %RSD

11.62

# AROCOLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.55				8.43	8.67
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.95				10.83	11.07
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.12				10.00	10.24
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.70				9.58	9.82
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.70				10.58	10.82
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.04				10.92	11.16
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

# AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013      Instrument ID: GC-Y  
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1292916				
Aroclor-1262 {2}			2408782				
Aroclor-1262 {3}			950819				
Aroclor-1262 {4}			1039798				
Aroclor-1262 {5}			871465				
Aroclor-1268			2329028				
Aroclor-1268 {2}			2439244				
Aroclor-1268 {3}			1975765				
Aroclor-1268 {4}			5596247				
Aroclor-1268 {5}			3165388				

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			2532606				
Aroclor-1262 {2}			5716193				
Aroclor-1262 {3}			2058727				
Aroclor-1262 {4}			4020600				
Aroclor-1262 {5}			980018				
Aroclor-1268			5861773				
Aroclor-1268 {2}			6124826				
Aroclor-1268 {3}			5049165				
Aroclor-1268 {4}			14509441				
Aroclor-1268 {5}			8286384				

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/21/2013

Instrument ID: GC-Y

Data File: Y2341.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	366249	7.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	507488	7.13
Aroclor-1016 {3}	4.60	4.53	4.67	687780	636594	7.44
Aroclor-1016 {4}	5.10	5.03	5.17	331025	328802	0.67
Aroclor-1016 {5}	5.50	5.42	5.56	562872	529603	5.91
Aroclor-1260	8.26	7.36	9.16	1606726	1527582	4.93
Aroclor-1260 {2}	8.94	8.04	9.84	759119	717563	5.47
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1804214	1.21
Aroclor-1260 {4}	9.89	8.99	10.79	952284	964328	1.26
Aroclor-1260 {5}	10.95	10.05	11.85	412992	444895	7.72

Data File: Y2341.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	734944	0.51
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1661020	4.72
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3711954	0.15
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1609132	1.69
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1270490	0.06
Aroclor-1260	7.85	6.95	8.75	1372418	1355973	1.20
Aroclor-1260 {2}	8.10	7.21	9.01	1997230	1982152	0.75
Aroclor-1260 {3}	9.69	8.80	10.60	1723918	1929508	11.93
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4419288	16.17
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3163800	16.34

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013      Instrument ID: GC-Y

Data File: Y2356.D      GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	386407	2.01
Aroclor-1016 {2}	4.05	3.98	4.12	546451	528335	3.32
Aroclor-1016 {3}	4.60	4.53	4.67	687780	658950	4.19
Aroclor-1016 {4}	5.10	5.03	5.17	331025	337790	2.04
Aroclor-1016 {5}	5.50	5.42	5.56	562872	543117	3.51
Aroclor-1260	8.27	7.36	9.16	1606726	1551948	3.41
Aroclor-1260 {2}	8.94	8.04	9.84	759119	720078	5.14
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1815514	0.59
Aroclor-1260 {4}	9.89	8.99	10.79	952284	968725	1.73
Aroclor-1260 {5}	10.95	10.05	11.85	412992	439839	6.50

Data File: Y2356.C      GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	777557	6.34
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1511532	4.70
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3916899	5.36
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1695784	3.61
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1341575	5.53
Aroclor-1260	7.85	6.95	8.75	1372418	1416125	3.18
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2066055	3.45
Aroclor-1260 {3}	9.69	8.80	10.60	1723918	1932496	12.10
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4360806	14.63
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3116884	14.62

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2372.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	377545	4.26
Aroclor-1016 {2}	4.05	3.98	4.12	546451	521129	4.63
Aroclor-1016 {3}	4.60	4.53	4.67	687780	649302	5.59
Aroclor-1016 {4}	5.10	5.03	5.17	331025	341168	3.06
Aroclor-1016 {5}	5.50	5.42	5.56	562872	538901	4.26
Aroclor-1260	8.27	7.36	9.16	1606726	1517140	5.58
Aroclor-1260 {2}	8.94	8.04	9.84	759119	701823	7.55
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1745110	4.45
Aroclor-1260 {4}	9.89	8.99	10.79	952284	932928	2.03
Aroclor-1260 {5}	10.95	10.05	11.85	412992	442905	7.24

Data File: Y2372.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	770074	5.32
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1508978	4.86
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3919259	5.43
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1695194	3.57
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1345131	5.81
Aroclor-1260	7.85	6.95	8.75	1372418	1547134	12.73
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2205244	10.42
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1922397	11.51
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4304623	13.15
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3014111	10.84

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2386.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	401039	1.70
Aroclor-1016 {2}	4.05	3.98	4.12	546451	546746	0.05
Aroclor-1016 {3}	4.60	4.53	4.67	687780	688057	0.04
Aroclor-1016 {4}	5.10	5.03	5.17	331025	361210	9.12
Aroclor-1016 {5}	5.49	5.42	5.56	562872	569254	1.13
Aroclor-1260	8.27	7.36	9.16	1606726	1599160	0.47
Aroclor-1260 {2}	8.94	8.04	9.84	759119	737408	2.86
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1844192	0.98
Aroclor-1260 {4}	9.89	8.99	10.79	952284	982459	3.17
Aroclor-1260 {5}	10.95	10.05	11.85	412992	418517	1.34

Data File: Y2386.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.77	3.69	3.83	731183	869735	18.95
Aroclor-1016 {2}	4.37	4.29	4.43	1586125	1801580	13.58
Aroclor-1016 {3}	5.12	5.04	5.18	3717574	4096553	10.19
Aroclor-1016 {4}	5.33	5.25	5.39	1636714	1752547	7.08
Aroclor-1016 {5}	5.50	5.42	5.56	1271295	1399575	10.09
Aroclor-1260	7.86	6.95	8.75	1372418	1596084	16.30
Aroclor-1260 {2}	8.12	7.21	9.01	1997230	2270262	13.67
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1992498	15.58
Aroclor-1260 {4}	10.21	9.30	11.10	3804274	4454666	17.10
Aroclor-1260 {5}	10.80	9.89	11.69	2719408	3138281	15.40

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2389.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	319427	19.00
Aroclor-1016 {2}	4.05	3.98	4.12	546451	439231	19.62
Aroclor-1016 {3}	4.60	4.53	4.67	687780	590582	14.13
Aroclor-1016 {4}	5.10	5.03	5.17	331025	284844	13.95
Aroclor-1016 {5}	5.50	5.42	5.56	562872	451076	19.86
Aroclor-1260	8.27	7.36	9.16	1606726	1334903	16.92
Aroclor-1260 {2}	8.94	8.04	9.84	759119	612009	19.38
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1479846	18.97
Aroclor-1260 {4}	9.89	8.99	10.79	952284	802902	15.69
Aroclor-1260 {5}	10.95	10.05	11.85	412992	364409	11.76

Data File: Y2389.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	649897	11.12
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1463672	7.72
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3259042	12.33
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1401610	14.36
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1105811	13.02
Aroclor-1260	7.85	6.95	8.75	1372418	1258172	8.32
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1791087	10.32
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1564479	9.25
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3619292	4.86
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2531594	6.91

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2408.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	326823	17.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	447291	18.15
Aroclor-1016 {3}	4.60	4.53	4.67	687780	560616	18.49
Aroclor-1016 {4}	5.10	5.03	5.17	331025	292250	11.71
Aroclor-1016 {5}	5.50	5.42	5.56	562872	463278	17.69
Aroclor-1260	8.27	7.36	9.16	1606726	1321724	17.74
Aroclor-1260 {2}	8.94	8.04	9.84	759119	616407	18.80
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1544968	15.40
Aroclor-1260 {4}	9.89	8.99	10.79	952284	838008	12.00
Aroclor-1260 {5}	10.95	10.05	11.85	412992	431179	4.40

Data File: Y2408.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	668693	8.55
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1509293	4.84
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3393540	8.72
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1462308	10.66
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1157754	8.93
Aroclor-1260	7.85	6.95	8.75	1372418	1242036	9.50
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1806791	9.54
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1703542	1.18
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3864696	1.59
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2757074	1.39

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013

Instrument ID: GC-Y

Data File: Y2416.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	330763	16.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	453191	17.07
Aroclor-1016 {3}	4.60	4.53	4.67	687780	568120	17.40
Aroclor-1016 {4}	5.10	5.03	5.17	331025	296002	10.58
Aroclor-1016 {5}	5.50	5.42	5.56	562872	474340	15.73
Aroclor-1260	8.27	7.36	9.16	1606726	1373088	14.54
Aroclor-1260 {2}	8.94	8.04	9.84	759119	642532	15.36
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1615958	11.52
Aroclor-1260 {4}	9.89	8.99	10.79	952284	860268	9.66
Aroclor-1260 {5}	10.95	10.05	11.85	412992	396898	3.90

Data File: Y2416.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	685886	6.20
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1332722	15.98
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3491473	6.08
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1508222	7.85
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1193600	6.11
Aroclor-1260	7.85	6.95	8.75	1372418	1279692	6.76
Aroclor-1260 {2}	8.10	7.21	9.01	1997230	1882484	5.75
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1810727	5.04
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4151895	9.14
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3028988	11.38

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013      Instrument ID: GC-Y

Data File: Y2356.D      GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	386407	2.01
Aroclor-1016 {2}	4.05	3.98	4.12	546451	528335	3.32
Aroclor-1016 {3}	4.60	4.53	4.67	687780	658950	4.19
Aroclor-1016 {4}	5.10	5.03	5.17	331025	337790	2.04
Aroclor-1016 {5}	5.50	5.42	5.56	562872	543117	3.51
Aroclor-1260	8.27	7.36	9.16	1606726	1551948	3.41
Aroclor-1260 {2}	8.94	8.04	9.84	759119	720078	5.14
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1815514	0.59
Aroclor-1260 {4}	9.89	8.99	10.79	952284	968725	1.73
Aroclor-1260 {5}	10.95	10.05	11.85	412992	439839	6.50

Data File: Y2356.C      GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	777557	6.34
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1511532	4.70
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3916899	5.36
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1695784	3.61
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1341575	5.53
Aroclor-1260	7.85	6.95	8.75	1372418	1416125	3.18
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2066055	3.45
Aroclor-1260 {3}	9.69	8.80	10.60	1723918	1932496	12.10
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4360806	14.63
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3116884	14.62

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2372.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	377545	4.26
Aroclor-1016 {2}	4.05	3.98	4.12	546451	521129	4.63
Aroclor-1016 {3}	4.60	4.53	4.67	687780	649302	5.59
Aroclor-1016 {4}	5.10	5.03	5.17	331025	341168	3.06
Aroclor-1016 {5}	5.50	5.42	5.56	562872	538901	4.26
Aroclor-1260	8.27	7.36	9.16	1606726	1517140	5.58
Aroclor-1260 {2}	8.94	8.04	9.84	759119	701823	7.55
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1745110	4.45
Aroclor-1260 {4}	9.89	8.99	10.79	952284	932928	2.03
Aroclor-1260 {5}	10.95	10.05	11.85	412992	442905	7.24

Data File: Y2372.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	770074	5.32
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1508978	4.86
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3919259	5.43
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1695194	3.57
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1345131	5.81
Aroclor-1260	7.85	6.95	8.75	1372418	1547134	12.73
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2205244	10.42
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1922397	11.51
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4304623	13.15
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	3014111	10.84

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2389.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	319427	19.00
Aroclor-1016 {2}	4.05	3.98	4.12	546451	439231	19.62
Aroclor-1016 {3}	4.60	4.53	4.67	687780	590582	14.13
Aroclor-1016 {4}	5.10	5.03	5.17	331025	284844	13.95
Aroclor-1016 {5}	5.50	5.42	5.56	562872	451076	19.86
Aroclor-1260	8.27	7.36	9.16	1606726	1334903	16.92
Aroclor-1260 {2}	8.94	8.04	9.84	759119	612009	19.38
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1479846	18.97
Aroclor-1260 {4}	9.89	8.99	10.79	952284	802902	15.69
Aroclor-1260 {5}	10.95	10.05	11.85	412992	364409	11.76

Data File: Y2389.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	649897	11.12
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1463672	7.72
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3259042	12.33
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1401610	14.36
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1105811	13.02
Aroclor-1260	7.85	6.95	8.75	1372418	1258172	8.32
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1791087	10.32
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1564479	9.25
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3619292	4.86
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2531594	6.91

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/22/2013

Instrument ID: GC-Y

Data File: Y2408.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	326823	17.12
Aroclor-1016 {2}	4.05	3.98	4.12	546451	447291	18.15
Aroclor-1016 {3}	4.60	4.53	4.67	687780	560616	18.49
Aroclor-1016 {4}	5.10	5.03	5.17	331025	292250	11.71
Aroclor-1016 {5}	5.50	5.42	5.56	562872	463278	17.69
Aroclor-1260	8.27	7.36	9.16	1606726	1321724	17.74
Aroclor-1260 {2}	8.94	8.04	9.84	759119	616407	18.80
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1544968	15.40
Aroclor-1260 {4}	9.89	8.99	10.79	952284	838008	12.00
Aroclor-1260 {5}	10.95	10.05	11.85	412992	431179	4.40

Data File: Y2408.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	668693	8.55
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1509293	4.84
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3393540	8.72
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1462308	10.66
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1157754	8.93
Aroclor-1260	7.85	6.95	8.75	1372418	1242036	9.50
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1806791	9.54
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1703542	1.18
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3864696	1.59
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2757074	1.39

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013

Instrument ID: GC-Y

Data File: Y2436.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	365786	7.24
Aroclor-1016 {2}	4.05	3.98	4.12	546451	500285	8.45
Aroclor-1016 {3}	4.60	4.53	4.67	687780	620192	9.83
Aroclor-1016 {4}	5.10	5.03	5.17	331025	343046	3.63
Aroclor-1016 {5}	5.50	5.42	5.56	562872	514997	8.51
Aroclor-1260	8.27	7.36	9.16	1606726	1401170	12.79
Aroclor-1260 {2}	8.94	8.04	9.84	759119	661325	12.88
Aroclor-1260 {3}	9.42	8.51	10.31	1826305	1589825	12.95
Aroclor-1260 {4}	9.90	8.99	10.79	952284	848481	10.90
Aroclor-1260 {5}	10.95	10.05	11.85	412992	357350	13.47

Data File: Y2436.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.77	3.69	3.83	731183	869657	18.94
Aroclor-1016 {2}	4.37	4.29	4.43	1586125	1654846	4.33
Aroclor-1016 {3}	5.12	5.04	5.18	3717574	3748576	0.83
Aroclor-1016 {4}	5.33	5.25	5.39	1636714	1626096	0.65
Aroclor-1016 {5}	5.50	5.42	5.56	1271295	1276014	0.37
Aroclor-1260	7.86	6.95	8.75	1372418	1404206	2.32
Aroclor-1260 {2}	8.12	7.21	9.01	1997230	1993935	0.17
Aroclor-1260 {3}	9.71	8.80	10.60	1723918	1705816	1.05
Aroclor-1260 {4}	10.21	9.30	11.10	3804274	3778369	0.68
Aroclor-1260 {5}	10.80	9.89	11.69	2719408	2715809	0.13

# AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/23/2013      Instrument ID: GC-Y

Data File: Y2438.D      GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	358597	9.06
Aroclor-1016 {2}	4.05	3.98	4.12	546451	480527	12.06
Aroclor-1016 {3}	4.60	4.53	4.67	687780	610875	11.18
Aroclor-1016 {4}	5.11	5.03	5.17	331025	327936	0.93
Aroclor-1016 {5}	5.50	5.42	5.56	562872	505859	10.13
Aroclor-1260	8.27	7.36	9.16	1606726	1387966	13.62
Aroclor-1260 {2}	8.94	8.04	9.84	759119	682293	10.12
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1575282	13.74
Aroclor-1260 {4}	9.89	8.99	10.79	952284	841739	11.61
Aroclor-1260 {5}	10.95	10.05	11.85	412992	393693	4.67

Data File: Y2438.C      GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	724881	0.86
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1398245	11.85
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3672367	1.22
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1597998	2.37
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1256816	1.14
Aroclor-1260	7.85	6.95	8.75	1372418	1430793	4.25
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2049948	2.64
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1824368	5.83
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4134325	8.68
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2893688	6.41

## PCB RETENTION TIME SHIFT SUMMARY

**Instrument ID:** GC-Y

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.77</u>	DCB 1	<u>12.04</u>	TCMX 2	<u>2.89</u>	DCB 2	<u>12.47</u>
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Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2
	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
PCB	BLKS131018-14	10/21/2013	21:32	2.77	12.04	2.89	12.47
PCB	LCSS131018-14	10/21/2013	21:50	2.77	12.04	2.89	12.47
SS-1/1-2	E13-10170-001	10/21/2013	22:07	2.77	12.04	2.89	12.47
PCB	10170-001MS	10/21/2013	22:24	2.77	12.04	2.89	12.47
PCB	10170-001MSD	10/21/2013	22:42	2.77	12.04	2.89	12.47
HLR-70-1	E13-10276-001	10/21/2013	22:59	2.77	12.05	2.89	12.48
HLR-70-1	E13-10276-002	10/21/2013	23:16	2.77	12.04	2.89	12.48
HLR-70-1	E13-10276-003	10/21/2013	23:34	2.77	12.04	2.89	12.47
HLR-70-1	E13-10276-004	10/21/2013	23:51	2.77	12.04	2.89	12.47
HLR-70-1	E13-10276-005	10/22/2013	00:09	2.77	12.04	2.89	12.47
SW-203C	E13-10225-007	10/22/2013	00:26	2.77	12.04	2.89	12.47
SW-204A	E13-10225-008	10/22/2013	00:43	2.77	12.04	2.89	12.47
SW-204B	E13-10225-009	10/22/2013	01:01	2.77	12.04	2.89	12.47
B-205	E13-10225-010	10/22/2013	01:18	2.77	12.04	2.89	12.47
KK-32(4.	E13-10227-001	10/22/2013	03:02	2.77	12.04	2.89	12.47
KK-37W(1	E13-10227-003	10/22/2013	03:37	2.77	12.04	2.89	12.47
KK-37W(2	E13-10227-004	10/22/2013	03:54	2.77	12.04	2.89	12.48
HH-37E(2	E13-10227-005	10/22/2013	04:12	2.77	12.04	2.89	12.48
II-43(0-	E13-10227-006	10/22/2013	04:29	2.77	12.04	2.89	12.47
II-43(1.	E13-10227-007	10/22/2013	04:46	2.77	12.04	2.89	12.47
GG-45(0-	E13-10227-008	10/22/2013	05:04	2.77	12.04	2.89	12.48
GG-45(1.	E13-10227-009	10/22/2013	05:21	2.77	12.04	2.89	12.48
HH-45(0-	E13-10227-010	10/22/2013	05:38	2.77	12.04	2.89	12.48
KK-37W(0	E13-10227-002	10/22/2013	14:00	2.77	12.04	2.89	12.48
II-43(1.	E13-10227-007DL	10/22/2013	14:17	2.77	12.04	2.89	12.47

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene ( ± 0.10 Minutes )

DCB = Decachlorobiphenyl ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

## PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-Y

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.77</u>	DCB 1	<u>12.04</u>	TCMX 2	<u>2.89</u>	DCB 2	<u>12.48</u>
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Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKA131021-17		10/22/2013	21:25	2.77	12.04	2.89	12.48
PCB	LCSA131021-17		10/22/2013	21:43	2.77	12.04	2.89	12.48
OUTFALL	E13-10256-001		10/22/2013	22:00	2.77	12.04	2.89	12.48
FB-21	E13-10192-011		10/22/2013	22:17	2.77	12.04	2.89	12.48
FB-22	E13-10227-014		10/22/2013	22:35	2.77	12.04	2.89	12.48
PCB	E13-10256-001MS		10/22/2013	22:52	2.77	12.04	2.89	12.48
PCB	E13-10256-001MSD		10/22/2013	23:09	2.77	12.04	2.89	12.48

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene (  $\pm$  0.10 Minutes )

DCB = Decachlorobiphenyl (  $\pm$  0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

## PCB RETENTION TIME SHIFT SUMMARY

**Instrument ID:** GC-Y

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	2.77	DCB 1	12.04	TCMX 2	2.89	DCB 2	12.48
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Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2
	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
PCB	BLKS131021-05	10/22/2013	07:05	2.77	12.04	2.89	12.48
PCB	LCSS131021-05	10/22/2013	07:22	2.77	12.04	2.89	12.48
HLR-126T	E13-10278-001	10/22/2013	07:40	2.77	12.04	2.89	12.48
PCB	10278-001MS	10/22/2013	07:57	2.77	12.04	2.89	12.48
PCB	10278-001MSD	10/22/2013	08:14	2.77	12.04	2.89	12.48
MICH01	E13-10390-001	10/22/2013	14:52	2.77	12.04	2.89	12.48
MICH02	E13-10390-002	10/22/2013	15:09	2.77	12.04	2.89	12.48
MICH03	E13-10390-003	10/22/2013	15:27	2.77	12.04	2.89	12.48
HH-45(1.	E13-10227-011	10/22/2013	15:44	2.77	12.04	2.89	12.48
HH-44(0-	E13-10227-012	10/22/2013	16:02	2.77	12.04	2.89	12.48
HH-44(1.	E13-10227-013	10/22/2013	16:19	2.77	12.04	2.89	12.47
HLR-126T	E13-10278-002	10/22/2013	16:36	2.77	12.04	2.89	12.48
HLR-126T	E13-10278-003	10/22/2013	16:54	2.77	12.04	2.89	12.48
HLR-85C-	E13-10277-001	10/22/2013	17:21	2.77	12.04	2.90	12.48
HLR-85C-	E13-10277-002	10/22/2013	17:39	2.77	12.04	2.89	12.48
HLR-85C-	E13-10277-003	10/22/2013	17:56	2.77	12.04	2.89	12.48
C-101	E13-10293-001	10/22/2013	18:14	2.77	12.04	2.89	12.48
C-102	E13-10293-002	10/22/2013	18:31	2.77	12.04	2.89	12.48
C-103	E13-10293-003	10/22/2013	18:48	2.77	12.04	2.89	12.48
C-104	E13-10293-004	10/22/2013	19:06	2.77	12.04	2.89	12.48
C-105	E13-10293-005	10/22/2013	19:23	2.77	12.04	2.89	12.48
C-106	E13-10293-006	10/22/2013	19:41	2.77	12.04	2.89	12.48
C-107	E13-10293-007	10/22/2013	19:58	2.77	12.04	2.89	12.48
HH-44(1.	E13-10227-013DL	10/23/2013	09:19	2.77	12.04	2.89	12.48

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene** (  $\pm$  0.10 Minutes )

**DCB = Decachlorobiphenyl** (  $\pm$  0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SAMPLE DATA**

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2357.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 3:02  
 Operator : NG  
 Sample : KK-32(4.,E13-10227-001,S,5.50g,19.9.20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:41:04 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3726.2E6	7863.0E6	201.825	214.109
Spiked Amount	200.000				Recovery =	100.91% 107.05%
2) S DCB	12.04	12.47	978.1E6	2506.8E6	158.709	194.075
Spiked Amount	200.000				Recovery =	79.35% 97.04%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	31674773	69753138	29.532	29.103
24) L6 Aroclor-1248 {2}	4.99	5.69	25556992	163.5E6	41.335	46.192
25) L6 Aroclor-1248 {3}	5.30	6.09	24983408	97406265	31.409	38.188
26) L6 Aroclor-1248 {4}	6.00	6.24	51098260	71342742	40.448	31.991
27) L6 Aroclor-1248 {5}	6.27	6.59	28944763	30521424	28.987	23.570
Sum Aroclor-1248			162.3E6	432.5E6	171.711	169.044
Average Aroclor-1248					34.342	33.809
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

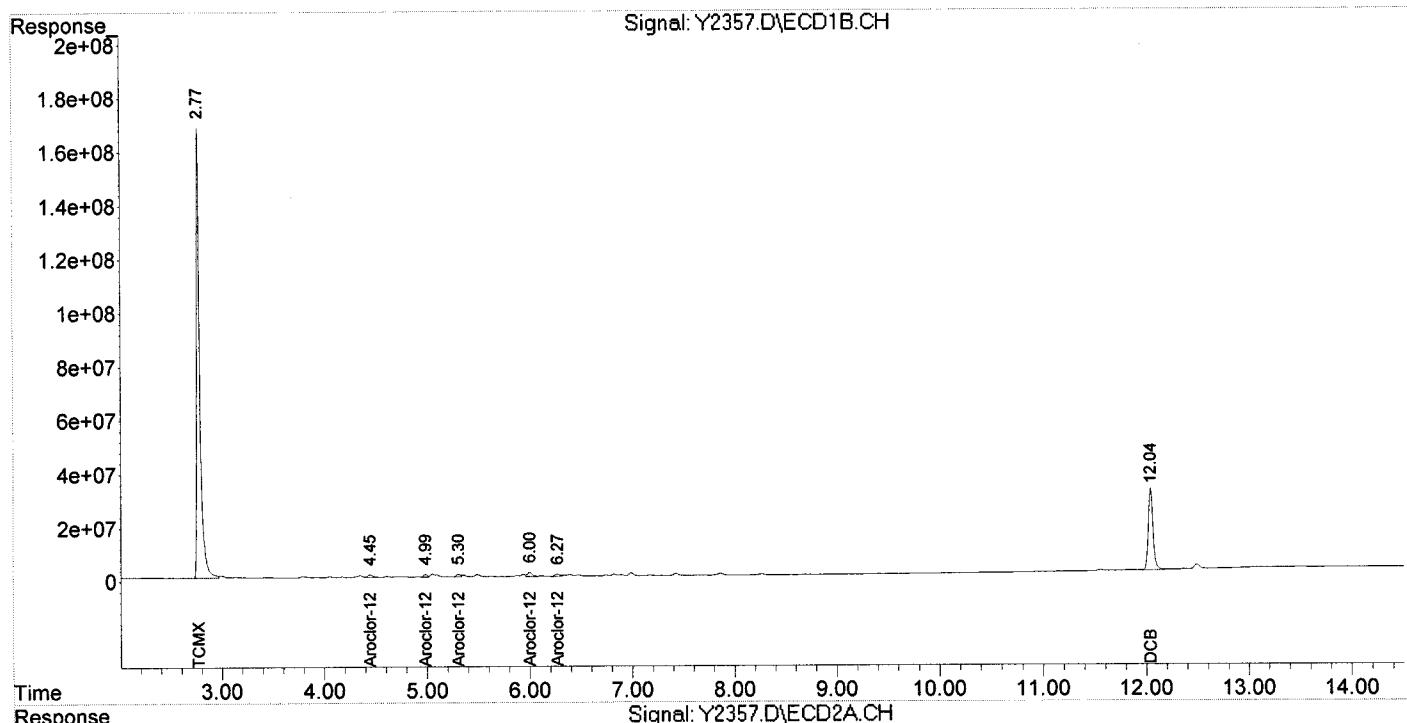
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2357.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 3:02  
Operator : NG  
Sample : KK-32(4.,E13-10227-001,S,5.50g,19.9,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:41:04 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2387.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 14:00  
 Operator : NG  
 Sample : KK-37W(0,E13-10227-002,S,5.00g,80.1,20  
 Misc : 131018-14,10/18/13,10/15/13,2  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 15:01:39 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

1) S TCMX	2.77	2.89	2384.6E6	5146.7E6	129.160	140.145
Spiked Amount	200.000				Recovery =	64.58% 70.07%
2) S DCB	12.04	12.48	697.1E6	1847.3E6	113.106	143.014m#
Spiked Amount	200.000				Recovery =	56.55% 71.51%

Target Compounds

Sum Aroclor-1016		0	0	N.D.	N.D.
Average Aroclor-1016				0.000	0.000
Sum Aroclor-1221		0	0	N.D.	N.D.
Average Aroclor-1221				0.000	0.000
Sum Aroclor-1232		0	0	N.D.	N.D.
Average Aroclor-1232				0.000	0.000
Sum Aroclor-1242		0	0	N.D.	N.D.
Average Aroclor-1242				0.000	0.000

23) L6 Aroclor-1248	4.45	5.11	816.4E6	1627.9E6	761.191	679.211
24) L6 Aroclor-1248 {2}	4.98	5.69	716.7E6	4265.6E6	1159.206	1205.193
25) L6 Aroclor-1248 {3}	5.30	6.09	1015.2E6	3506.5E6	1276.323	1374.688
26) L6 Aroclor-1248 {4}	6.00	6.24	1742.2E6	2624.2E6	1379.044	1176.740
27) L6 Aroclor-1248 {5}	6.27	6.59	1171.6E6	1353.2E6	1173.272	1044.974
Sum Aroclor-1248			5462.1E6	13377.3E6	5749.037	5480.805
Average Aroclor-1248					1149.807	1096.161

Sum Aroclor-1254		0	0	N.D.	N.D.
Average Aroclor-1254				0.000	0.000
Sum Aroclor-1260		0	0	N.D.	N.D.
Average Aroclor-1260				0.000	0.000
Sum Aroclor-1262		0	0	N.D.	N.D.
Average Aroclor-1262				0.000	0.000
Sum Aroclor-1268		0	0	N.D.	N.D.
Average Aroclor-1268				0.000	0.000

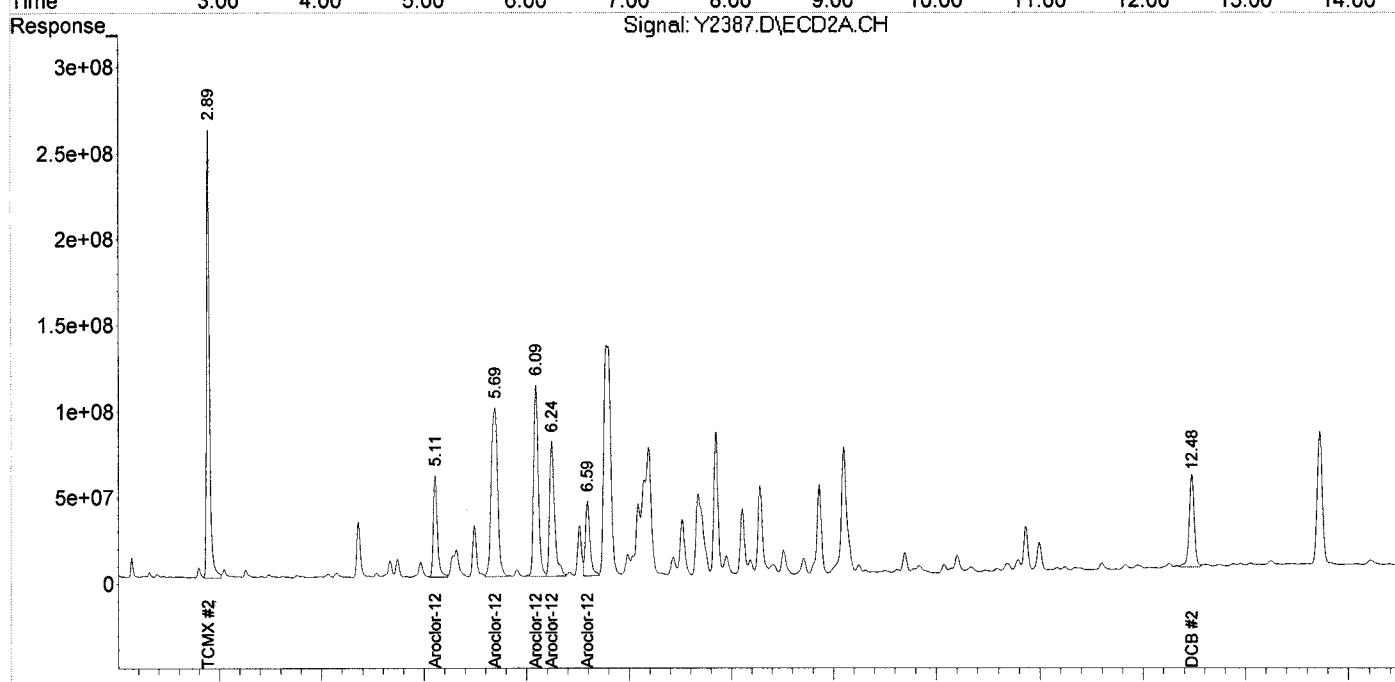
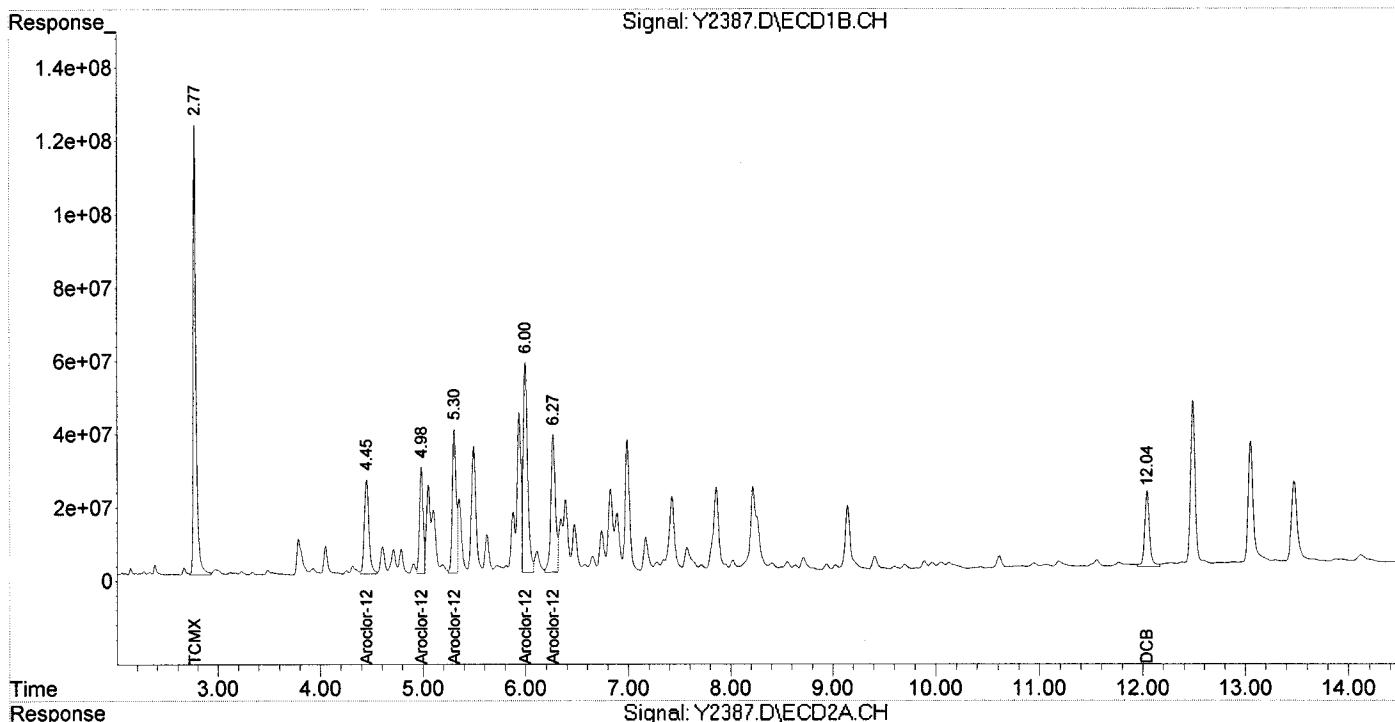
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2387.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 14:00  
Operator : NG  
Sample : KK-37W(0.E13-10227-002,S,5.00g,80.1,20  
Misc : 131018-14,10/18/13,10/15/13,2  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 15:01:39 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2359.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 3:37  
 Operator : NG  
 Sample : KK-37W(1,E13-10227-003,S,5.00g,81.6,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:42:48 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4533.0E6	9852.7E6	245.525	268.289
Spiked Amount	200.000			Recovery	= 122.76%	134.14%
2) S DCB	12.04	12.47	1321.2E6	3569.6E6	214.373	276.352m#
Spiked Amount	200.000			Recovery	= 107.19%	138.18%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	35977424	62902123	33.543	26.245
24) L6 Aroclor-1248 {2}	4.98	5.69	29981546	176.8E6	48.491	49.951
25) L6 Aroclor-1248 {3}	5.30	6.09	65532343	152.1E6	82.388	59.633 #
26) L6 Aroclor-1248 {4}	6.00	6.24	59965434	100.7E6	47.467	45.141
27) L6 Aroclor-1248 {5}	6.27	6.59	41017029	50684835	41.076	39.141
Sum Aroclor-1248			232.5E6	543.2E6	252.966	220.111
Average Aroclor-1248					50.593	44.022
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

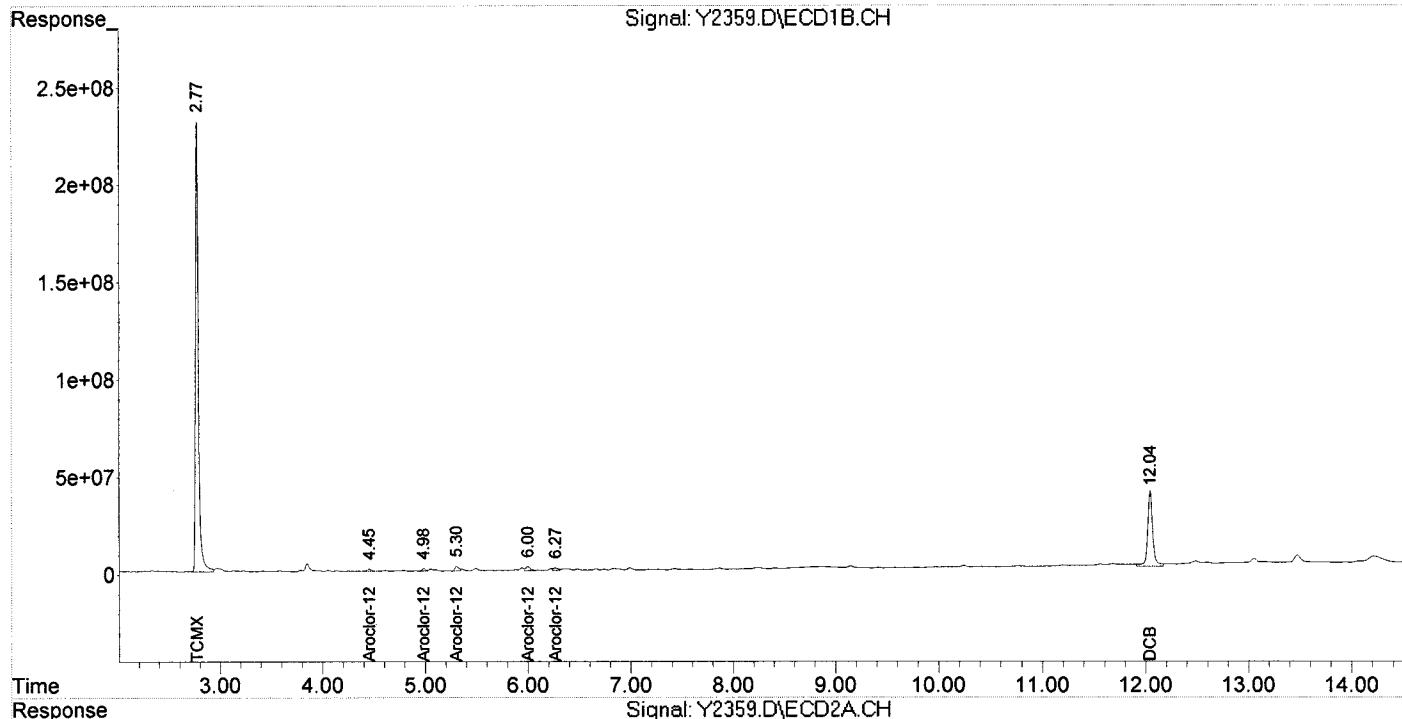
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2359.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 3:37  
Operator : NG  
Sample : KK-37W(1,E13-10227-003,S,5.00g,81.6,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:42:48 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2360.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 3:54  
 Operator : NG  
 Sample : KK-37W(2,E13-10227-004,S,5.20g,80.4,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:45:01 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<b>System Monitoring Compounds</b>						
1) S TCMX	2.77	2.89	4555.3E6	9899.4E6	246.733	269.559
Spiked Amount	200.000			Recovery	= 123.37%	134.78%
2) S DCB						
Spiked Amount	200.000	12.04	12.48	1192.7E6	3178.6E6	193.525
				Recovery	= 96.76%	123.04%
<b>Target Compounds</b>						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

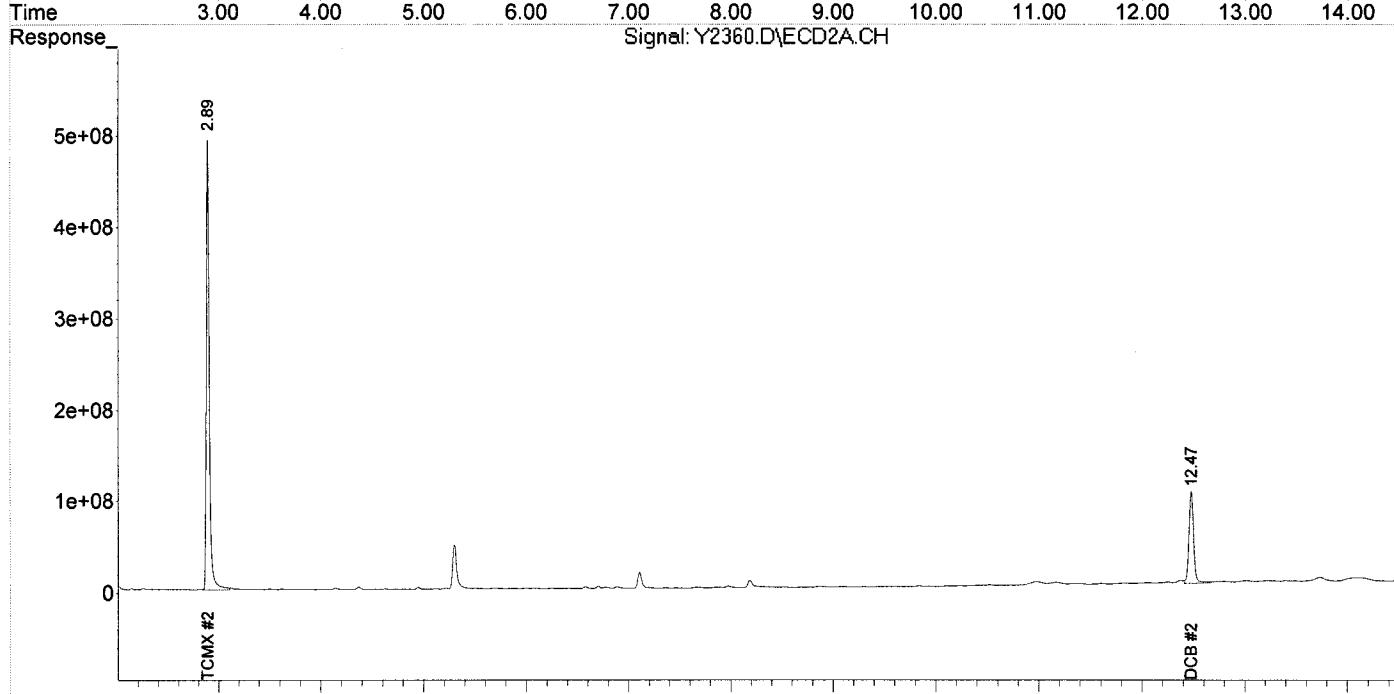
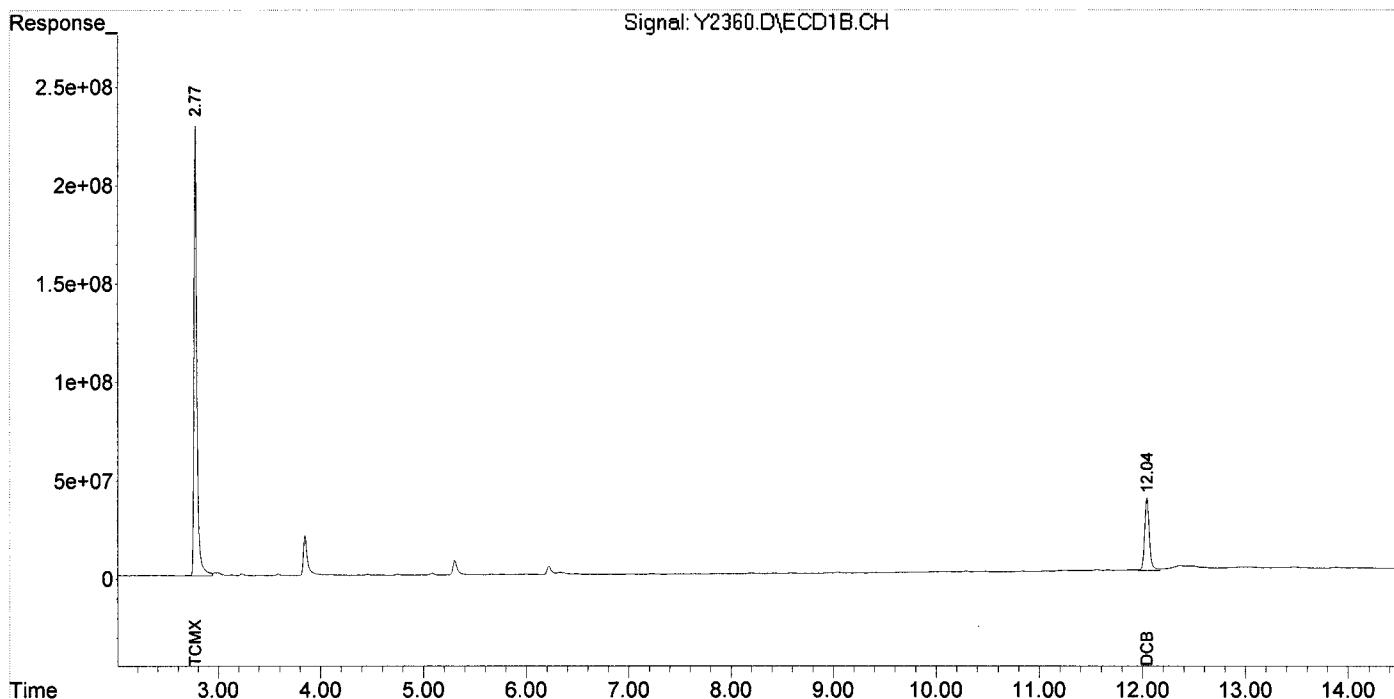
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2360.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 3:54  
Operator : NG  
Sample : KK-37W(2,E13-10227-004,S.5.20g,80.4,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:45:01 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2361.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 4:12  
 Operator : NG  
 Sample : HH-37E(2.E13-10227-005,S,5.50g,34.6,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:46:59 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1)	S TCMX	2.77	2.89	3674.7E6	8038.1E6	199.037	218.876
	Spiked Amount	200.000			Recovery	= 99.52%	109.44%
2)	S DCB	12.04	12.48	990.6E6	2494.6E6	160.729	193.131
	Spiked Amount	200.000			Recovery	= 80.36%	96.57%
<hr/>							
System Monitoring Compounds							
23)	L6 Aroclor-1248	4.45	5.11	206.0E6	456.7E6	192.046	190.535
24)	L6 Aroclor-1248 {2}	4.98	5.69	63621081	454.3E6	102.899	128.351
26)	L6 Aroclor-1248 {4}	6.00	6.24	84510999	215.0E6	66.896	96.410 #
27)	L6 Aroclor-1248 {5}	0.00	6.59	0	64757091	N.D. d	50.008 #
	Sum Aroclor-1248			354.1E6	1190.7E6	361.841	465.305
	Average Aroclor-1248					120.614	116.326
<hr/>							
	Sum Aroclor-1254			0	0	N.D.	N.D.
	Average Aroclor-1254					0.000	0.000
<hr/>							
	Sum Aroclor-1260			0	0	N.D.	N.D.
	Average Aroclor-1260					0.000	0.000
<hr/>							
	Sum Aroclor-1262			0	0	N.D.	N.D.
	Average Aroclor-1262					0.000	0.000
<hr/>							
	Sum Aroclor-1268			0	0	N.D.	N.D.
	Average Aroclor-1268					0.000	0.000

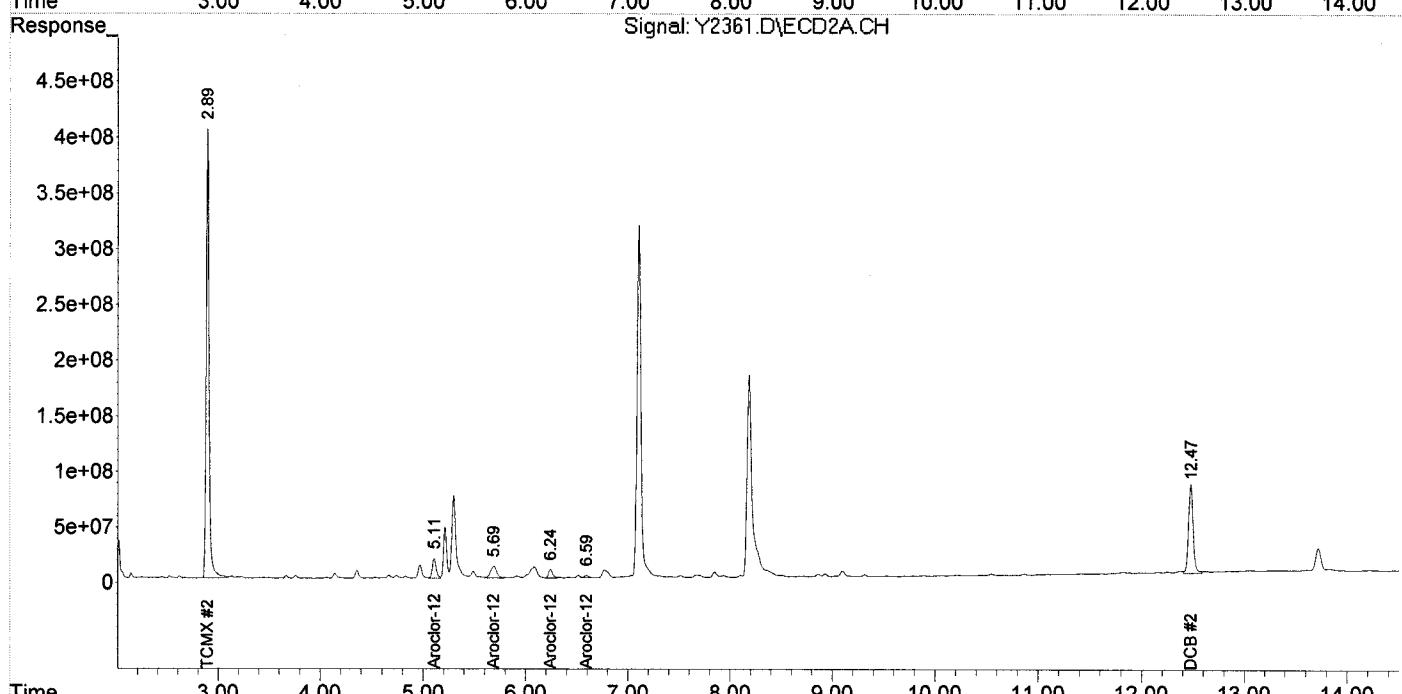
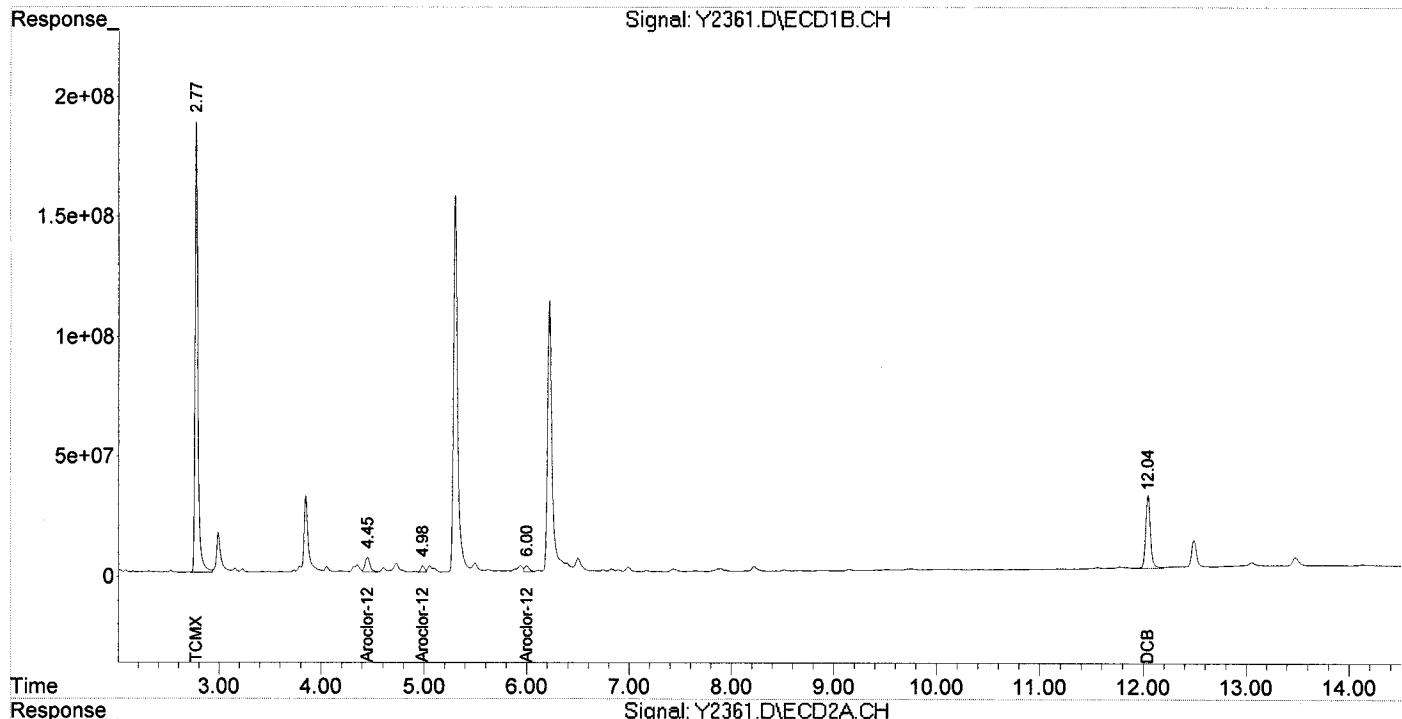
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2361.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 4:12  
Operator : NG  
Sample : HH-37E(2,E13-10227-005,S,5.50g,34.6,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:46:59 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2362.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 4:29  
 Operator : NG  
 Sample : II-43(0-.E13-10227-006,S,5.40g,73.4.20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:49:41 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4344.7E6	9361.6E6	235.325	254.915
Spiked Amount	200.000			Recovery	= 117.66%	127.46%
2) S DCB	12.04	12.47	1262.0E6	3466.6E6	204.772	268.378 #
Spiked Amount	200.000			Recovery	= 102.39%	134.19%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	765.9E6	1626.6E6	714.056	678.650
24) L6 Aroclor-1248 {2}	4.98	5.69	392.2E6	2488.6E6	634.376	703.124
25) L6 Aroclor-1248 {3}	0.00	6.09	0	1935.1E6	N.D. d	758.637 #
26) L6 Aroclor-1248 {4}	6.00	6.24	807.9E6	1237.8E6	639.547	555.062
27) L6 Aroclor-1248 {5}	6.26	6.59	556.6E6	664.7E6	557.438	513.330
Sum Aroclor-1248			2522.7E6	7952.8E6	2545.416	3208.804
Average Aroclor-1248					636.354	641.761
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
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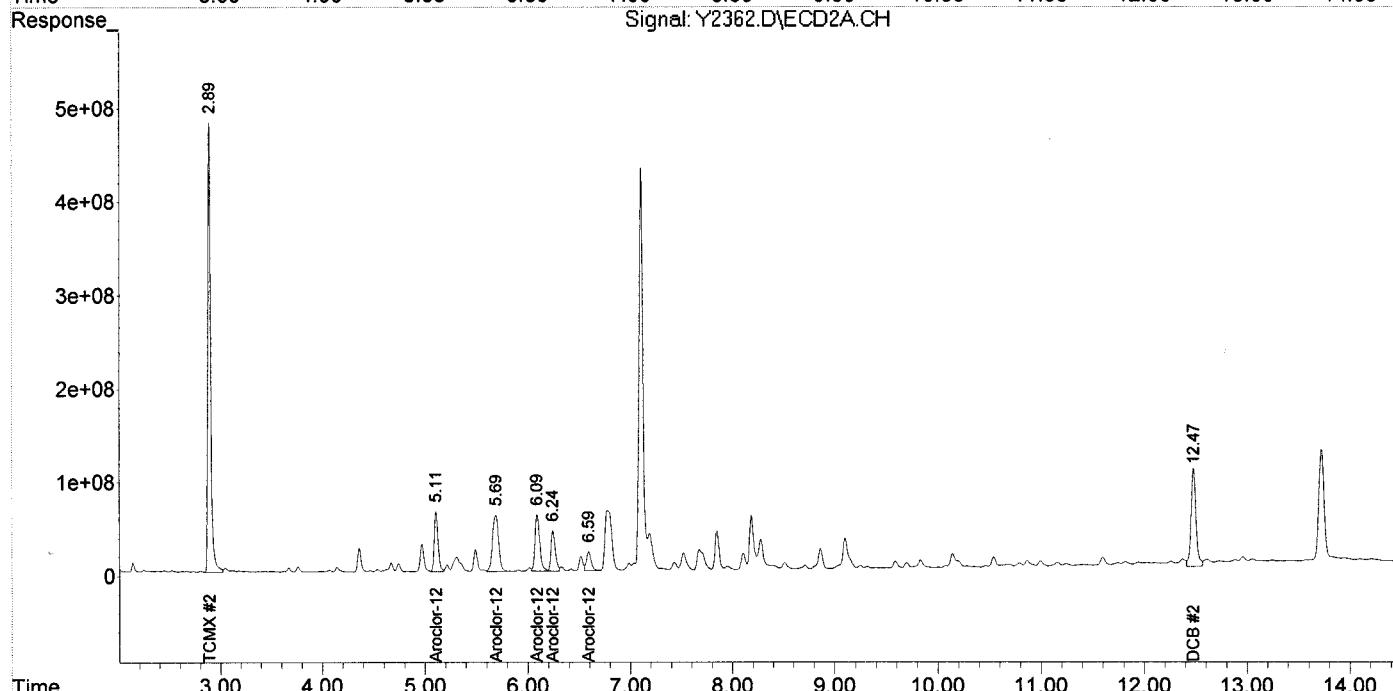
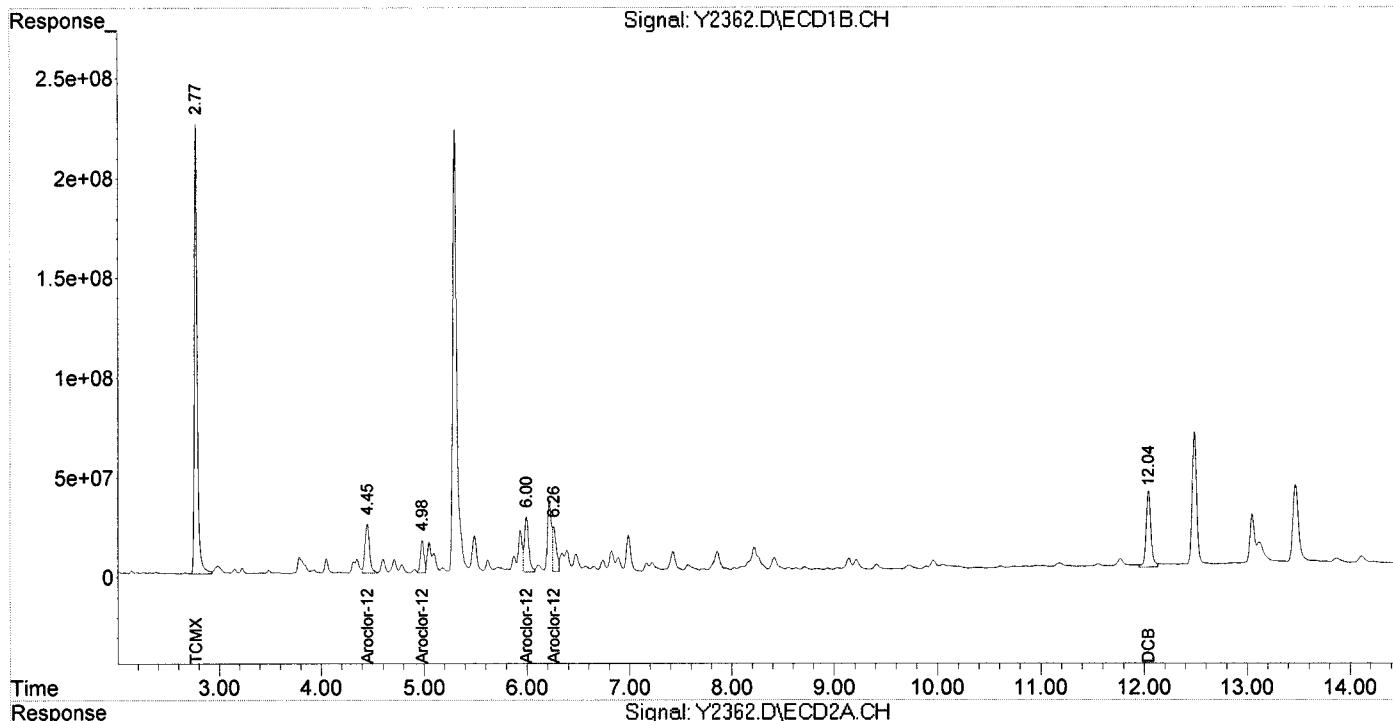
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2362.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 4:29  
Operator : NG  
Sample : II-43(0-,E13-10227-006,S.5.40g,73.4,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:49:41 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2363.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 4:46  
 Operator : NG  
 Sample : II-43(1.,E13-10227-007,S,5.60g,28.5,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 14:54:28 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
<hr/>								
1) S	TCMX	2.77	2.89	2978.8E6	6748.6E6	161.343	183.763	
Spiked Amount	200.000			Recovery	=	80.67%	91.88%	
2) S	DCB	12.04	12.47	960.5E6	2542.8E6	155.856	196.861m#	
Spiked Amount	200.000			Recovery	=	77.93%	98.43%	
<hr/>								
Target Compounds								
Sum Aroclor-1016				0	0	N.D.	N.D.	
Average Aroclor-1016						0.000	0.000	
Sum Aroclor-1221				0	0	N.D.	N.D.	
Average Aroclor-1221						0.000	0.000	
Sum Aroclor-1232				0	0	N.D.	N.D.	
Average Aroclor-1232						0.000	0.000	
Sum Aroclor-1242				0	0	N.D.	N.D.	
Average Aroclor-1242						0.000	0.000	
23) L6	Aroclor-1248	4.45	5.11	5249.7E6	10844.0E6	4894.523	4524.470	
24) L6	Aroclor-1248	{2}	4.98	5.69	1336.8E6	9465.8E6	2162.110	2674.443
25) L6	Aroclor-1248	{3}	5.30	6.09	4565.3E6	5464.7E6	5739.581	2142.400 #
26) L6	Aroclor-1248	{4}	6.00	6.24	1619.0E6	4484.7E6	1281.590	2011.004 #
27) L6	Aroclor-1248	{5}	6.26	6.59	1165.5E6	1867.3E6	1167.148	1442.039
Sum Aroclor-1248					13936.3E6	32126.5E6	15244.952	12794.356
Average Aroclor-1248						3048.990	2558.871	
Sum Aroclor-1254				0	0	N.D.	N.D.	
Average Aroclor-1254						0.000	0.000	
Sum Aroclor-1260				0	0	N.D.	N.D.	
Average Aroclor-1260						0.000	0.000	
Sum Aroclor-1262				0	0	N.D.	N.D.	
Average Aroclor-1262						0.000	0.000	
Sum Aroclor-1268				0	0	N.D.	N.D.	
Average Aroclor-1268						0.000	0.000	
<hr/>								

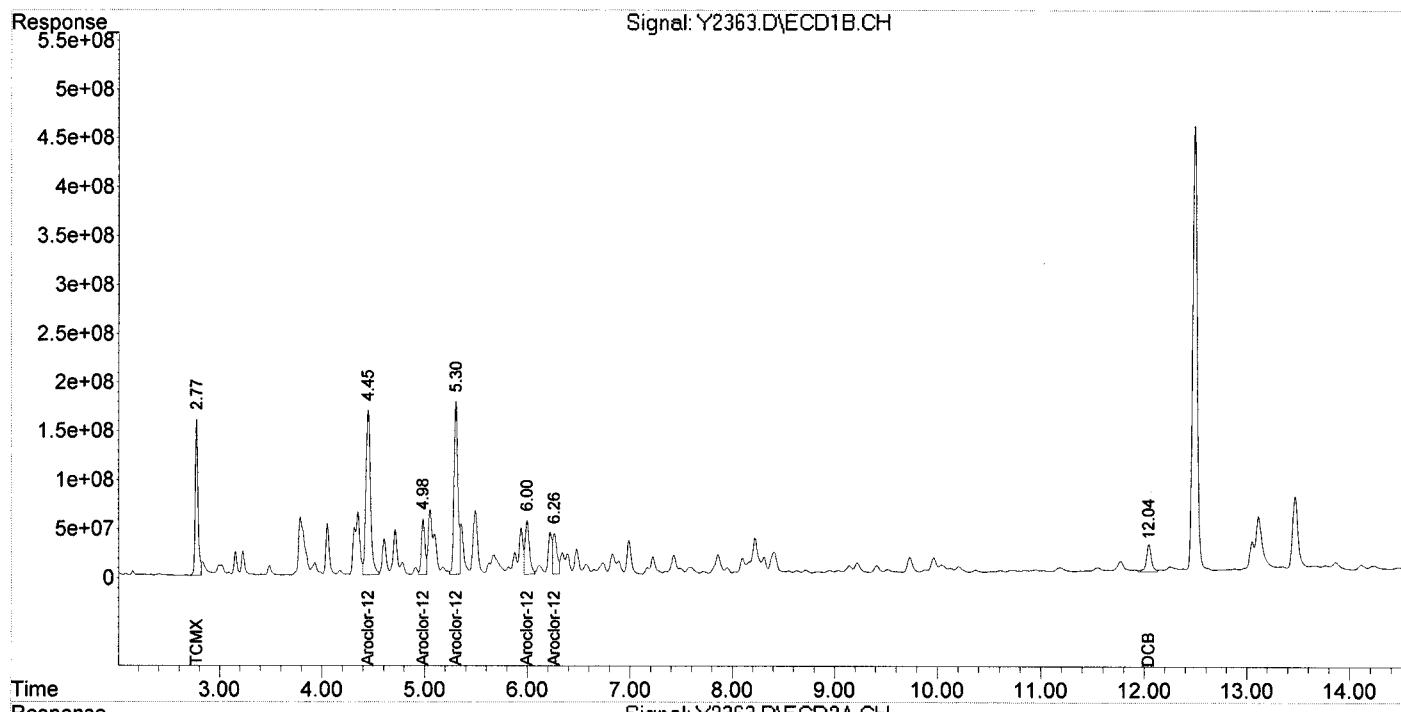
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2363.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 4:46  
Operator : NG  
Sample : II-43(1.,E13-10227-007,S,5.60g,28.5,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 14:54:28 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2388.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 14:17  
 Operator : NG  
 Sample : II-43(1.,E13-10227-007DL,S,5.60g,28.5,20  
 Misc : 131018-14,10/18/13,10/15/13,5  
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 15:00:16 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	795.9E6	1617.7E6	43.107	44.050
Spiked Amount	200.000			Recovery	=	21.55% 22.02%
2) S DCB	12.04	12.47	217.7E6	590.1E6	35.330	45.684m#
Spiked Amount	200.000			Recovery	=	17.66% 22.84%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
24) L6 Aroclor-1248 {2}	4.99	5.69	349.8E6	2558.3E6	565.835	722.831 #
25) L6 Aroclor-1248 {3}	0.00	6.09	0	1496.9E6	N.D. d	586.838 #
26) L6 Aroclor-1248 {4}	6.00	6.24	413.8E6	1206.6E6	327.568	541.057 #
27) L6 Aroclor-1248 {5}	6.26	6.59	292.7E6	497.5E6	293.128	384.164 #
Sum Aroclor-1248			1056.4E6	5759.3E6	1186.531	2234.890
Average Aroclor-1248					395.510	558.722
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

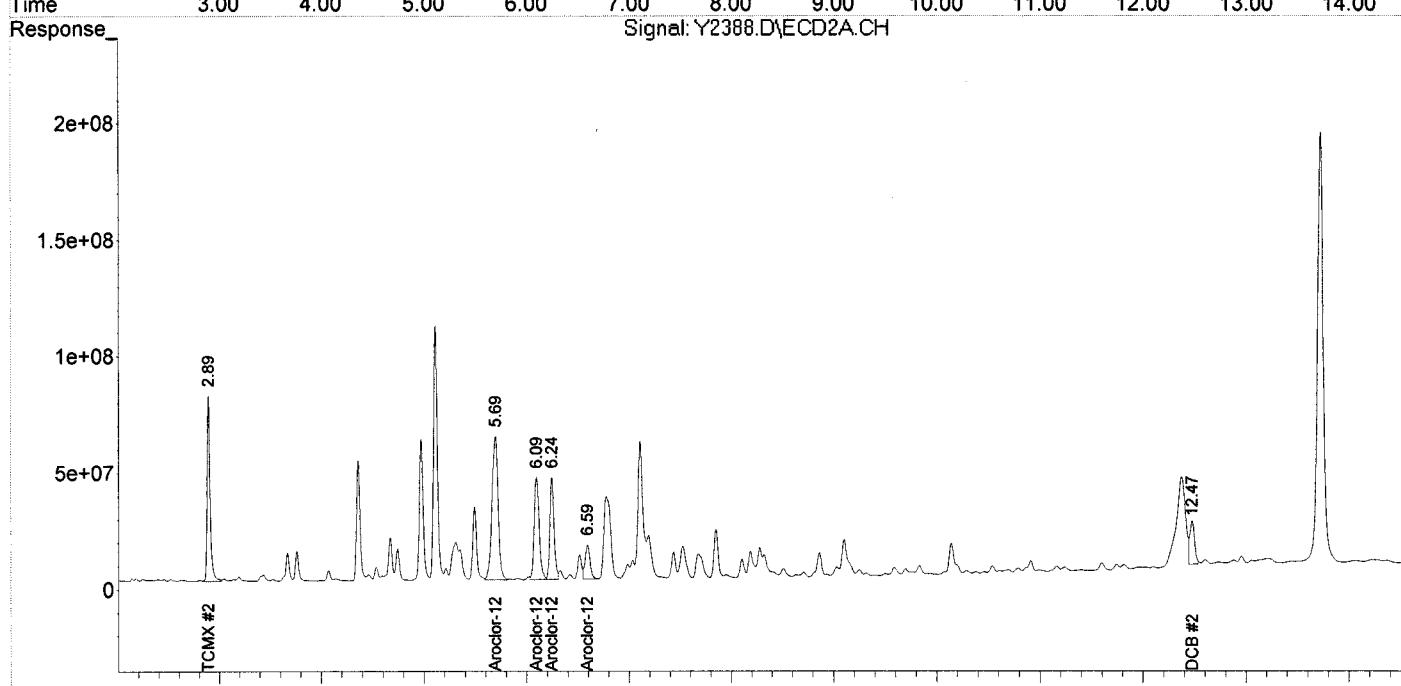
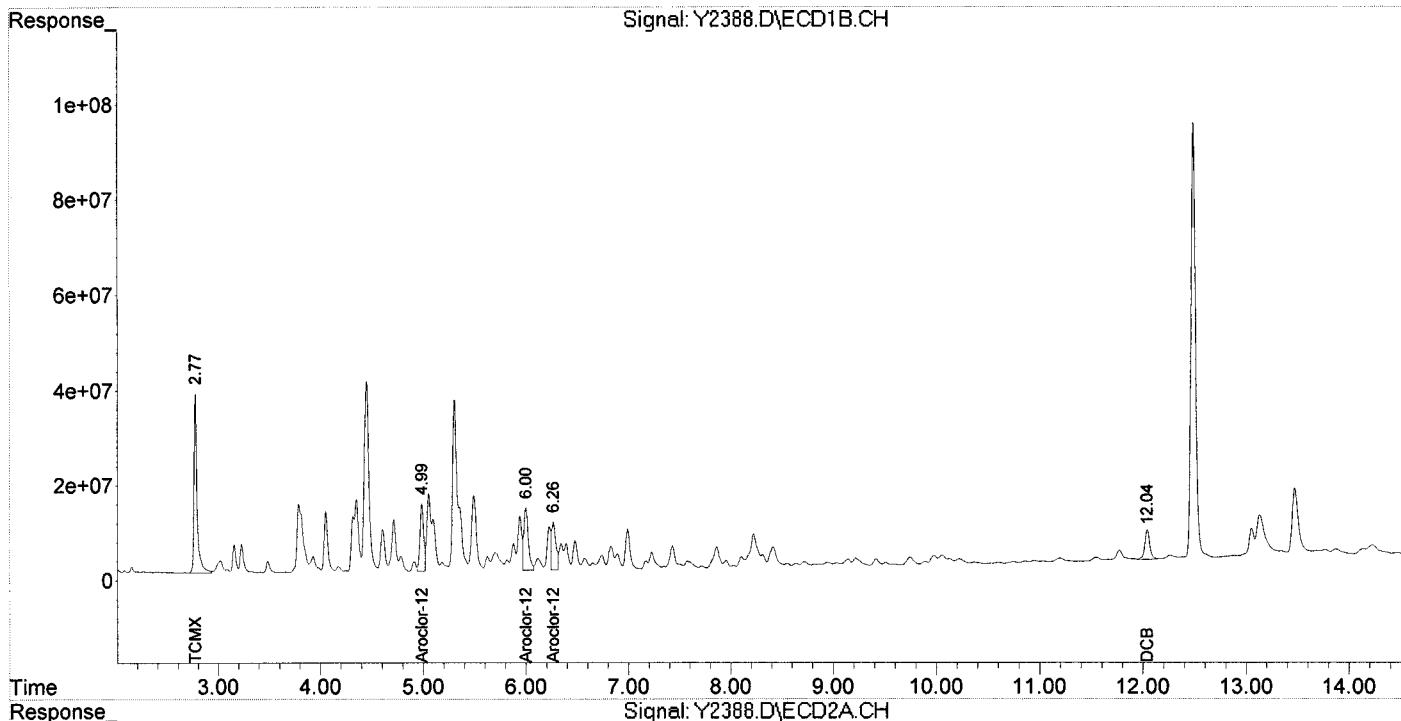
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2388.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 14:17  
Operator : NG  
Sample : II-43(1.,E13-10227-007DL,S,5,60g,28.5,20  
Misc : 131018-14,10/18/13,10/15/13,5  
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 15:00:16 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2364.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 5:04  
 Operator : NG  
 Sample : GG-45(0-,E13-10227-008,S,5.10g,73.9,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:51:10 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4459.5E6	9600.5E6	241.541	261.421
Spiked Amount	200.000			Recovery	= 120.77%	130.71%
2) S DCB	12.04	12.48	1512.2E6	3617.5E6	245.360	280.066m
Spiked Amount	200.000			Recovery	= 122.68%	140.03%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	331.3E6	672.9E6	308.867	280.766
24) L6 Aroclor-1248 {2}	4.99	5.69	282.5E6	1755.5E6	456.866	496.002
25) L6 Aroclor-1248 {3}	5.30	6.09	436.0E6	1409.4E6	548.114	552.549
26) L6 Aroclor-1248 {4}	6.00	6.24	674.1E6	857.2E6	533.594	384.403 #
27) L6 Aroclor-1248 {5}	6.27	6.59	471.9E6	513.5E6	472.560	396.575
Sum Aroclor-1248			2195.7E6	5208.6E6	2320.001	2110.295
Average Aroclor-1248					464.000	422.059
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

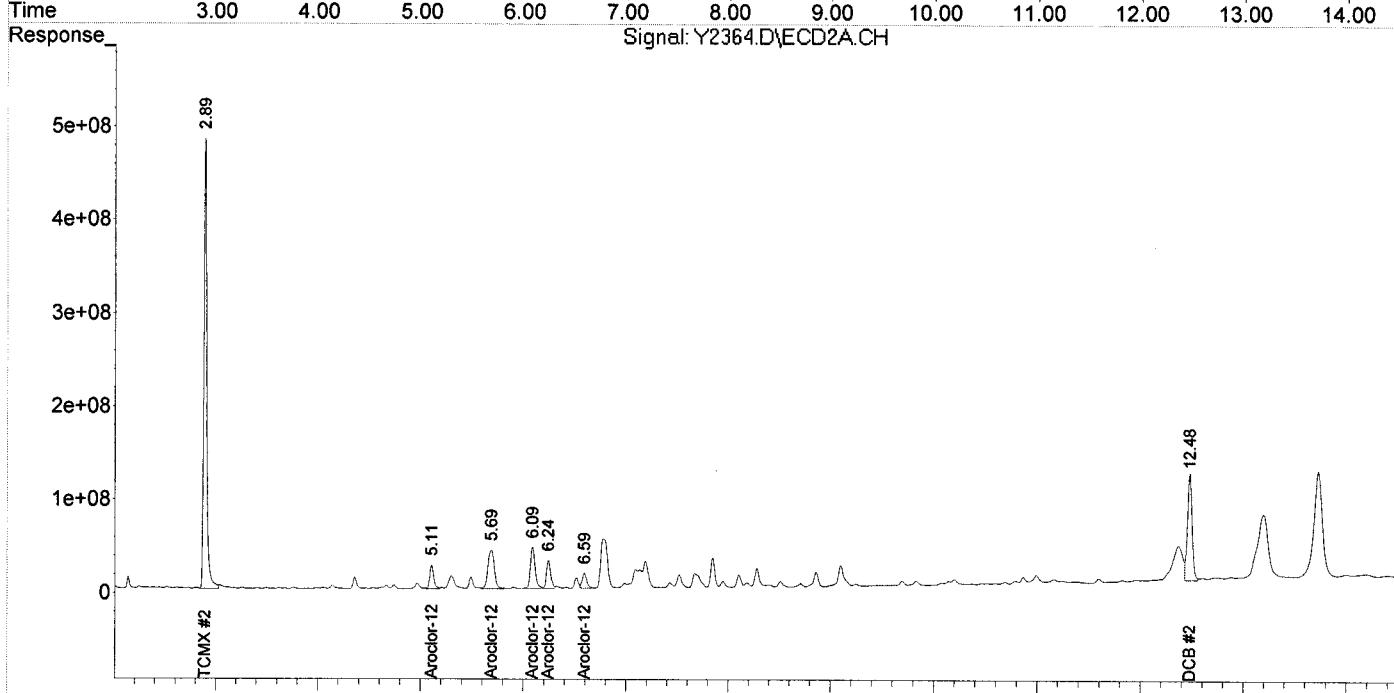
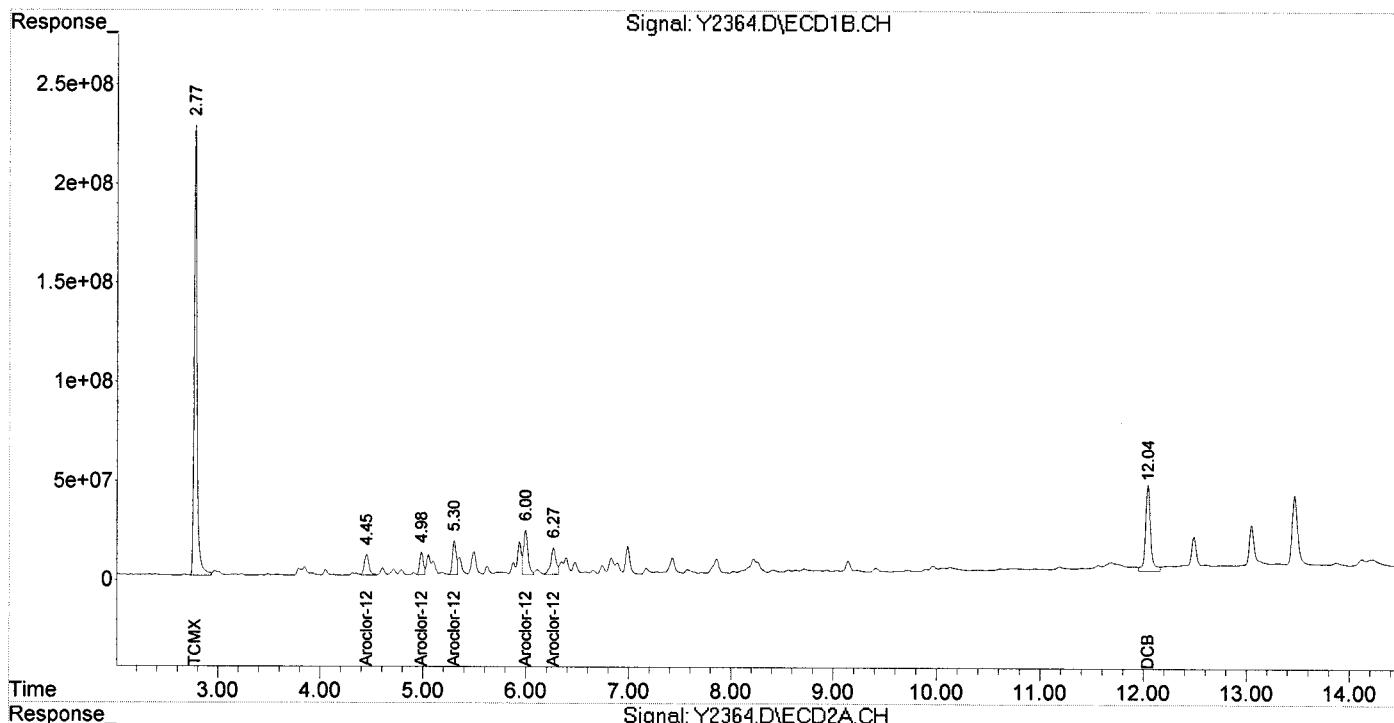
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2364.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 5:04  
Operator : NG  
Sample : GG-45(0-,E13-10227-008,S,5.10g,73.9,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:51:10 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2365.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 5:21  
 Operator : NG  
 Sample : GG-45(1.,E13-10227-009,S,5.00g,79.3,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 10:52:42 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4745.4E6	10544.2E6	257.031	287.117
Spiked Amount	200.000			Recovery	= 128.52%	143.56%
2) S DCB	12.04	12.48	1681.9E6	3736.0E6	272.911	289.237m
Spiked Amount	200.000			Recovery	= 136.46%	144.62%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

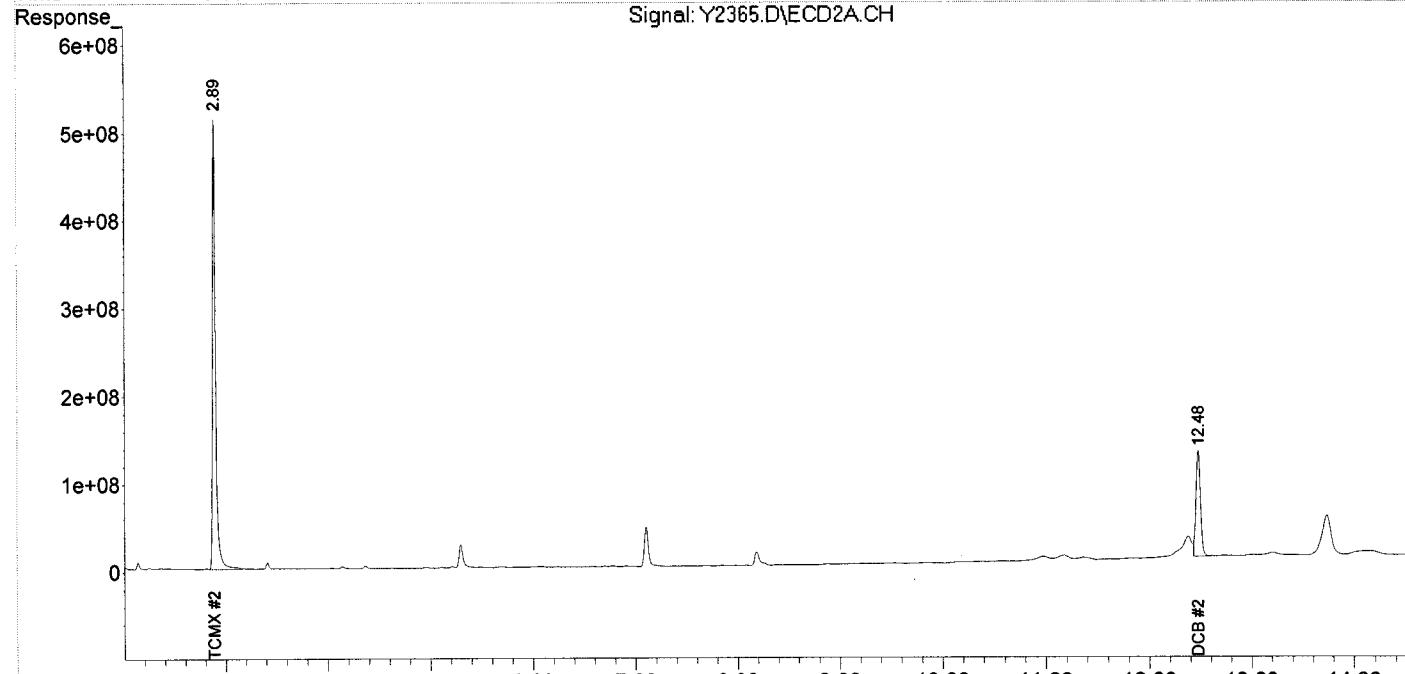
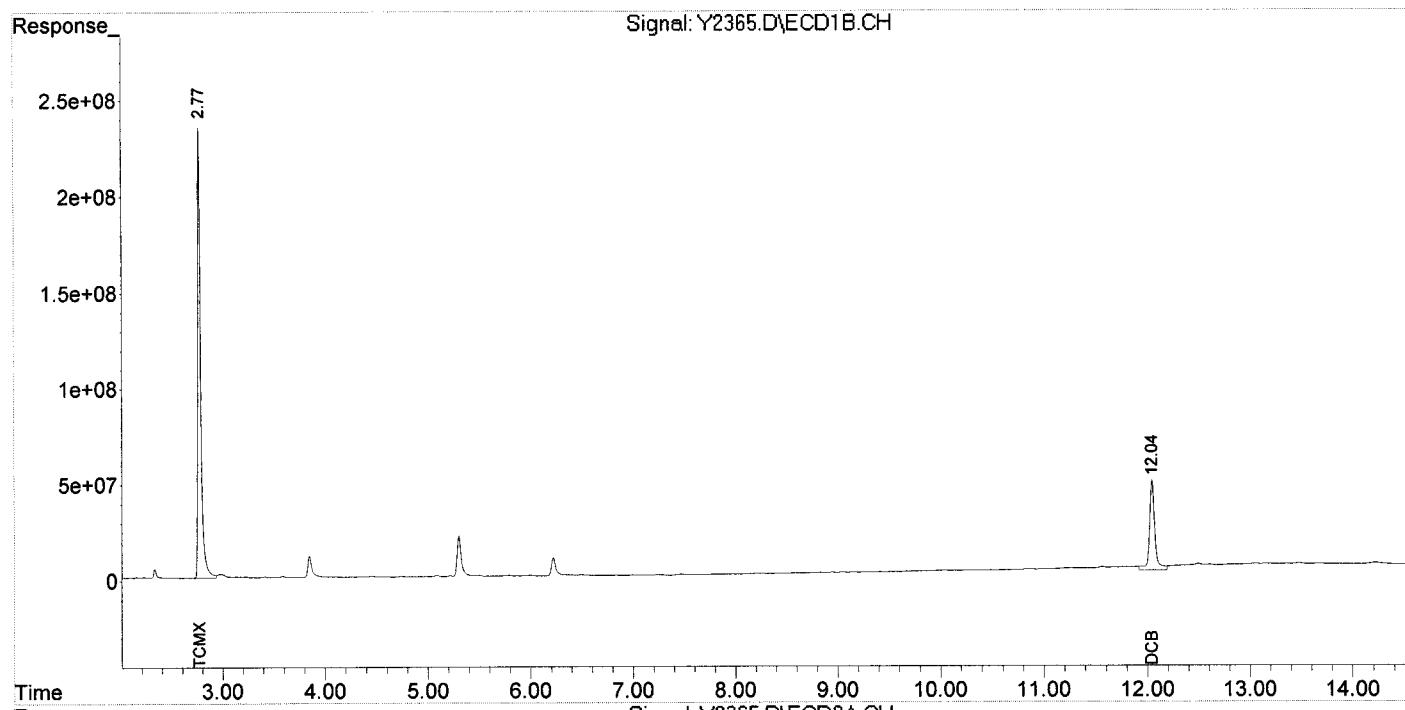
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2365.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 5:21  
Operator : NG  
Sample : GG-45(1.,E13-10227-009,S,5.00g,79.3,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 10:52:42 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2366.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 5:38  
 Operator : NG  
 Sample : HH-45(0-,E13-10227-010,S,5.50g,60.5,20  
 Misc : 131018-14,10/18/13,10/15/13,1  
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 13:49:30 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4436.6E6	9502.6E6	240.305	258.755
Spiked Amount	200.000			Recovery	= 120.15%	129.38%
2) S DCB	12.04	12.48	1498.1E6	3432.1E6	243.075	265.707m
Spiked Amount	200.000			Recovery	= 121.54%	132.85%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	51890297	120.4E6	48.380	50.252
24) L6 Aroclor-1248 {2}	4.98	5.68	160.2E6	872.1E6	259.099	246.415
25) L6 Aroclor-1248 {3}	5.30	6.09	148.4E6	587.5E6	186.556	230.325
26) L6 Aroclor-1248 {4}	6.00	6.24	363.7E6	204.4E6	287.862	91.672 #
27) L6 Aroclor-1248 {5}	6.26	6.58	176.6E6	255.7E6	176.899	197.452
Sum Aroclor-1248			900.8E6	2040.2E6	958.796	816.116
Average Aroclor-1248					191.759	163.223
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

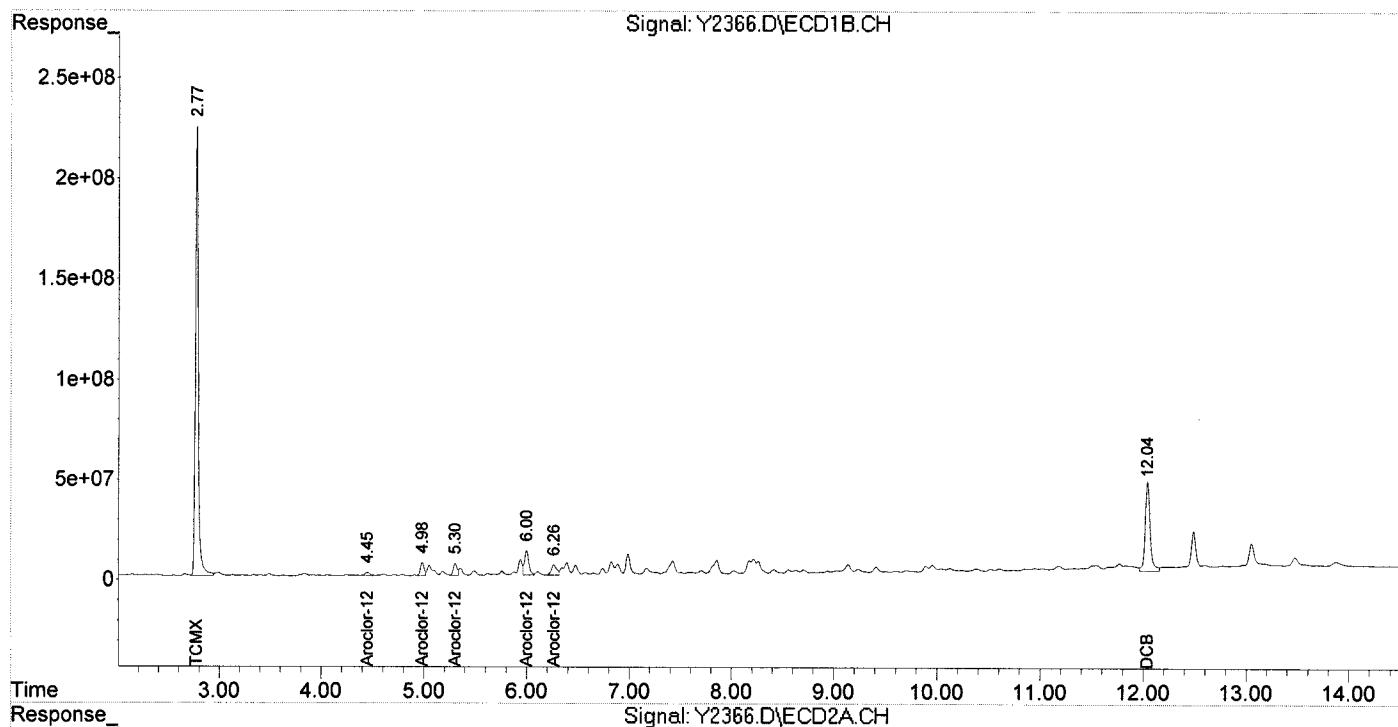
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2366.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 5:38  
Operator : NG  
Sample : HH-45(0-,E13-10227-010,S,5.50g,60.5,20  
Misc : 131018-14,10/18/13,10/15/13,1  
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 13:49:30 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2393.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 15:44  
 Operator : NG  
 Sample : HH-45(1.,E13-10227-011,S,5.20g,31.8,20  
 Misc : 131021-05,10/21/13,10/15/13,1  
 ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 11:02:24 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3574.0E6	7570.3E6	193.580	206.140
Spiked Amount	200.000			Recovery	=	96.79% 103.07%
2) S DCB	12.04	12.48	907.8E6	2357.0E6	147.297	182.477
Spiked Amount	200.000			Recovery	=	73.65% 91.24%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	11156820	18294661	10.402m	7.633 #
24) L6 Aroclor-1248 {2}	4.99	5.69	16682840	85621061	26.982	24.191
25) L6 Aroclor-1248 {3}	5.31	6.09	27113905	65172858	34.088	25.551 #
26) L6 Aroclor-1248 {4}	6.00	6.24	33088800	30251852	26.192	13.565 #
27) L6 Aroclor-1248 {5}	6.27	6.59	18770223	24506174	18.797	18.925
Sum Aroclor-1248			106.8E6	223.8E6	116.462	89.865
Average Aroclor-1248					23.292	17.973
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

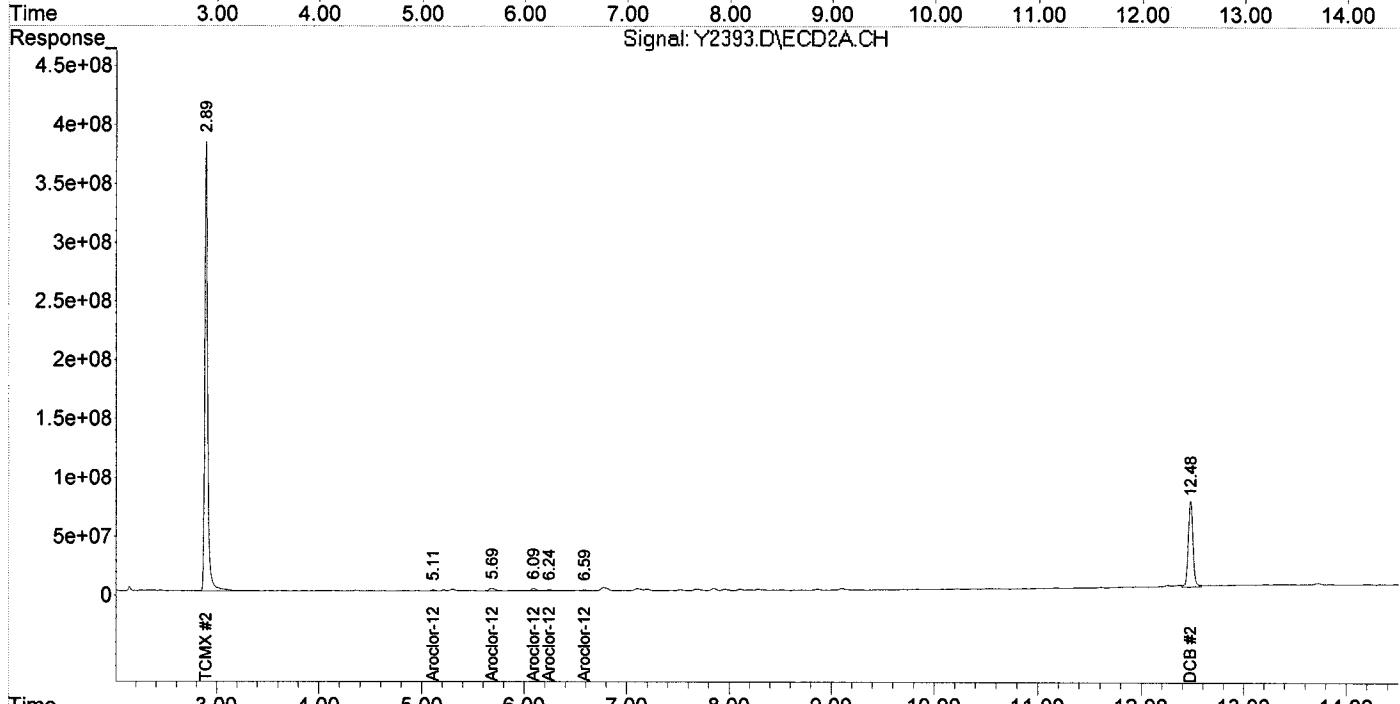
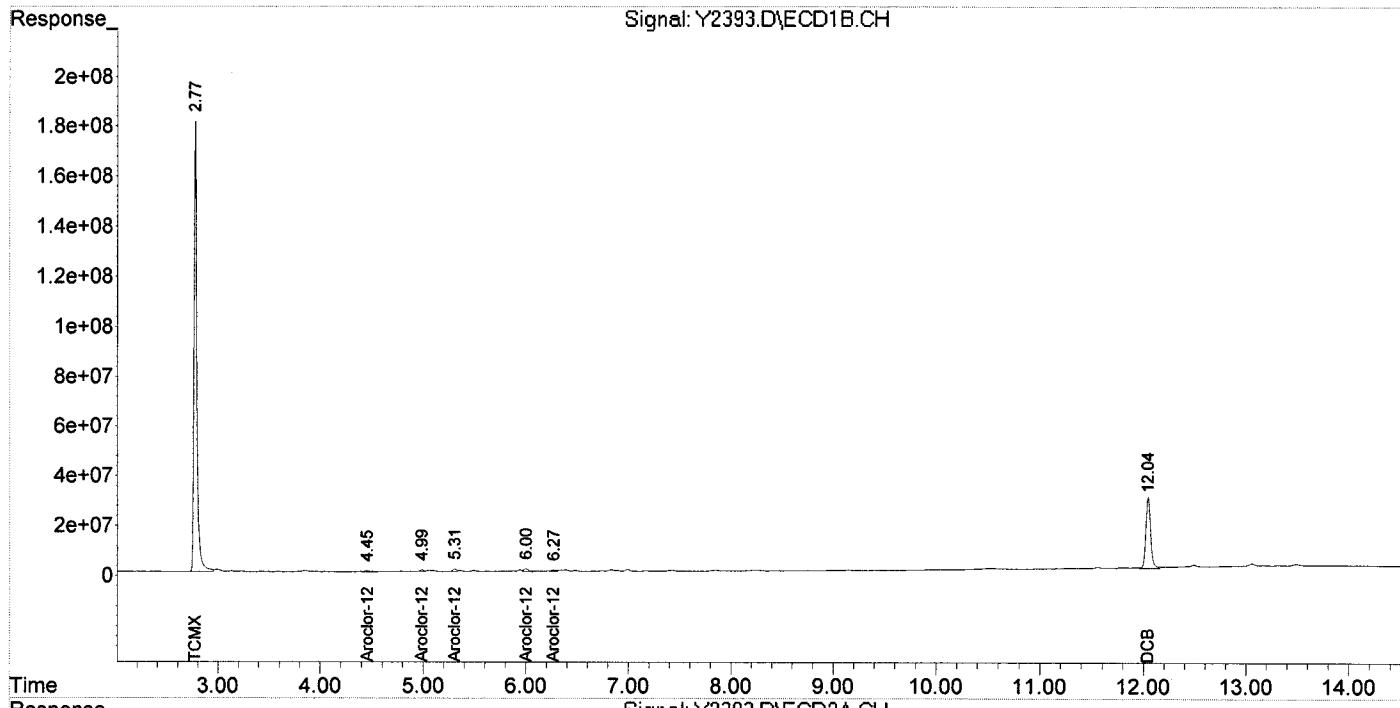
## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2393.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 15:44  
Operator : NG  
Sample : HH-45(1.,E13-10227-011,S,5.20g,31.8,20  
Misc : 131021-05,10/21/13,10/15/13,1  
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 11:02:24 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2394.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 16:02  
 Operator : NG  
 Sample : HH-44(0-,E13-10227-012,S,5.79g,76.4,20  
 Misc : 131021-05,10/21/13,10/15/13,5  
 ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 16:03:50 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	880.2E6	1854.6E6	47.676	50.499
Spiked Amount	200.000			Recovery	=	23.84% 25.25%
2) S DCB	12.04	12.48	297.0E6	561.3E6	48.198	43.456m
Spiked Amount	200.000			Recovery	=	24.10% 21.73%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	100.9E6	225.1E6	94.028	93.936
24) L6 Aroclor-1248 {2}	4.99	5.69	63838765	355.7E6	103.251	100.510
25) L6 Aroclor-1248 {3}	0.00	6.09	0	260.8E6	N.D. d	102.259 #
26) L6 Aroclor-1248 {4}	6.00	6.24	121.7E6	178.1E6	96.302	79.845
27) L6 Aroclor-1248 {5}	6.27	6.59	92312190	124.2E6	92.446	95.949
Sum Aroclor-1248			378.7E6	1144.0E6	386.027	472.499
Average Aroclor-1248					96.507	94.500
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

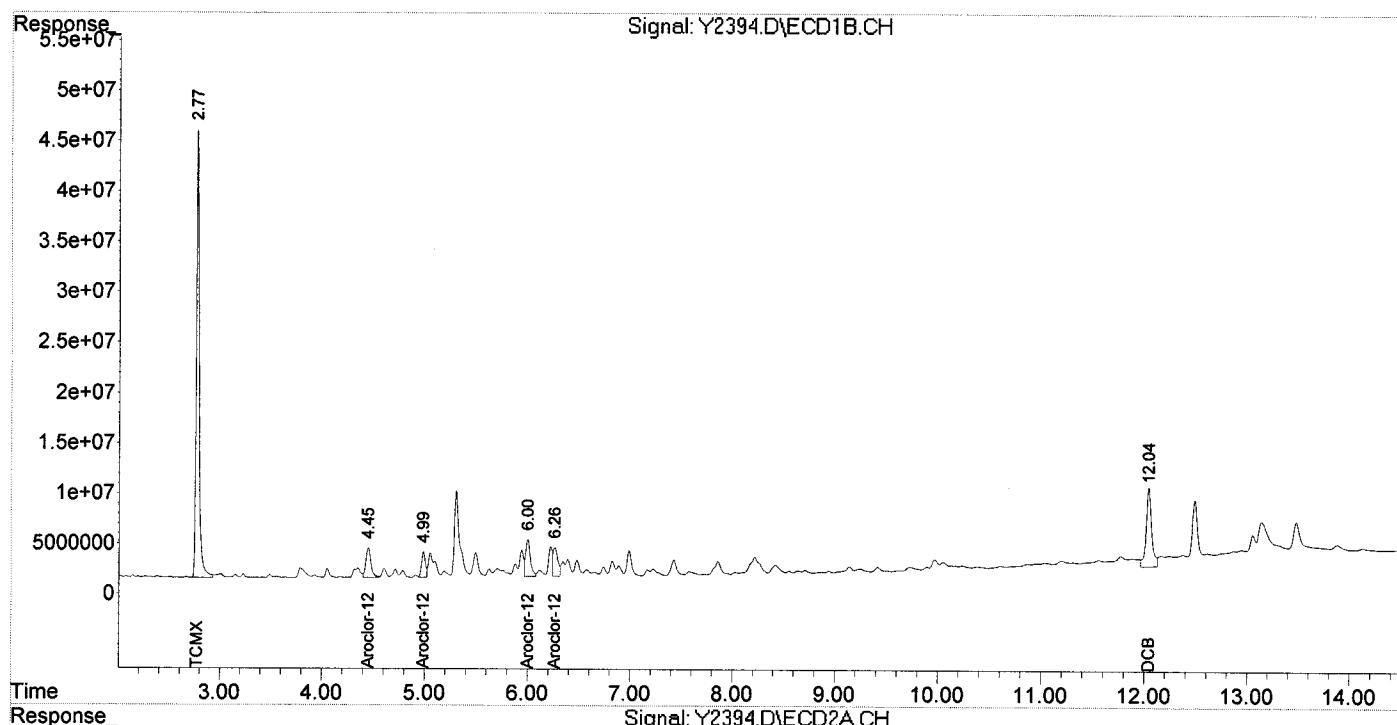
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2394.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 16:02  
Operator : NG  
Sample : HH-44(0-,E13-10227-012,S,5.79g,76.4,20  
Misc : 131021-05,10/21/13,10/15/13,5  
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 16:03:50 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2395.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 16:19  
 Operator : NG  
 Sample : HH-44(1.,E13-10227-013,S,5.36g,52.6,20  
 Misc : 131021-05,10/21/13,10/15/13,5  
 ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 11:05:12 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	939.3E6	1557.7E6	50.877	42.417
Spiked Amount	200.000				Recovery =	25.44% 21.21%
2) S DCB	12.04	12.47	219.3E6	584.8E6	35.579m	45.274m#
Spiked Amount	200.000				Recovery =	17.79% 22.64%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	7333.6E6	15106.6E6	6837.475	6302.951
24) L6 Aroclor-1248 {2}	4.98	5.69	1380.9E6	10478.1E6	2233.360	2960.474 #
25) L6 Aroclor-1248 {3}	5.30	6.10	1701.6E6	2635.3E6	2139.318	1033.146 #
26) L6 Aroclor-1248 {4}	6.00	6.24	437.3E6	2579.6E6	346.124	1156.728 #
27) L6 Aroclor-1248 {5}	6.22	6.59	924.7E6	451.8E6	926.008	348.935 #
Sum Aroclor-1248			11778.1E6	31251.5E6	12482.284	11802.234
Average Aroclor-1248					2496.457	2360.447
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

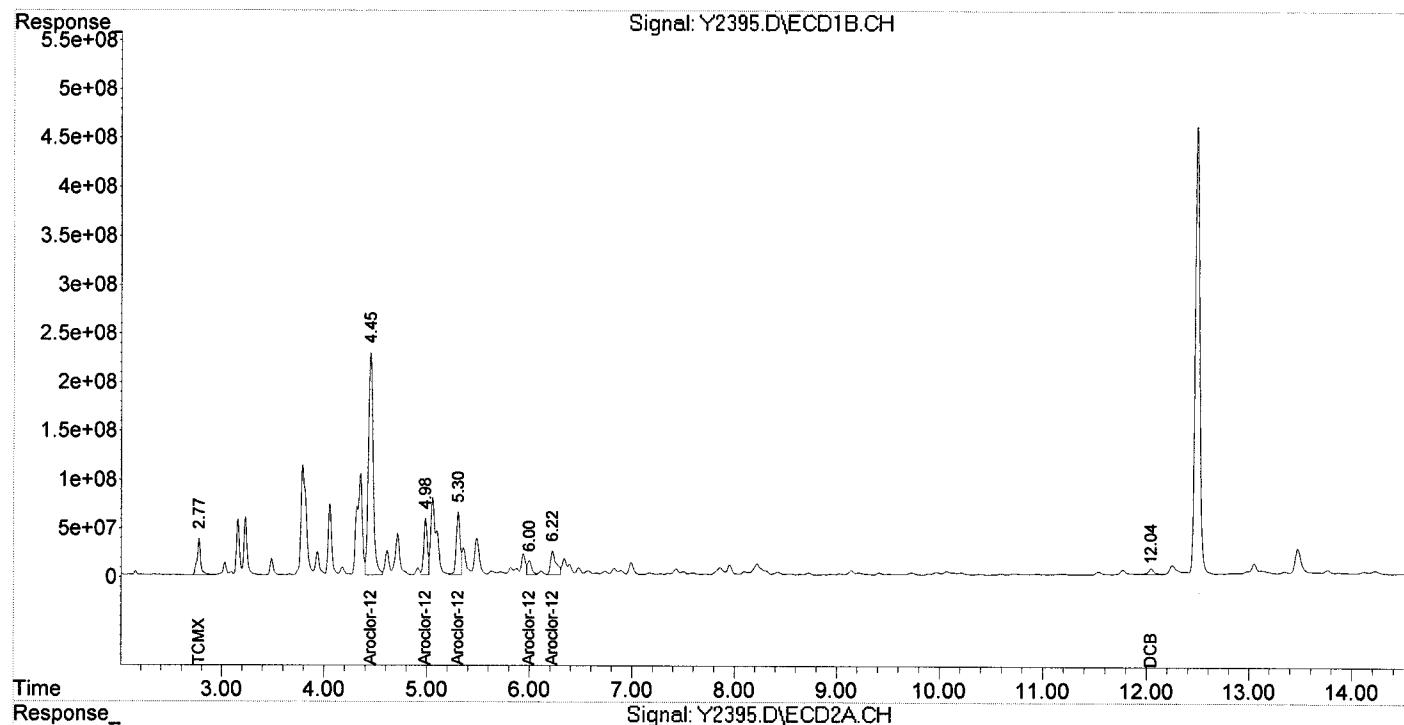
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2395.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 16:19  
Operator : NG  
Sample : HH-44(1.,E13-10227-013,S,5.36g,52.6,20  
Misc : 131021-05,10/21/13,10/15/13,5  
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 11:05:12 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\  
 Data File : Y2437.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 23 Oct 2013 9:19  
 Operator : NG  
 Sample : HH-44(1.,E13-10227-013DL,S,5.36g,52.6,20  
 Misc : 131021-05,10/21/13,10/15/13,10  
 ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 15:44:56 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	520.1E6	864.4E6	28.172	23.536
Spiked Amount	200.000			Recovery	=	14.09% 11.77%
2) S DCB	12.04	12.48	120.0E6	318.3E6	19.468m	24.645m#
Spiked Amount	200.000			Recovery	=	9.73% 12.32%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
24) L6 Aroclor-1248 {2}	4.99	0.00	779.5E6	0	1260.682	N.D. d#
25) L6 Aroclor-1248 {3}	5.30	6.10	874.0E6	1560.3E6	1098.852	611.726 #
26) L6 Aroclor-1248 {4}	6.00	6.24	264.8E6	1530.3E6	209.581	686.211 #
27) L6 Aroclor-1248 {5}	0.00	6.60	0	275.3E6	N.D. d	212.580 #
Sum Aroclor-1248			1918.3E6	3365.9E6	2569.115	1510.517
Average Aroclor-1248					856.372	503.506
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

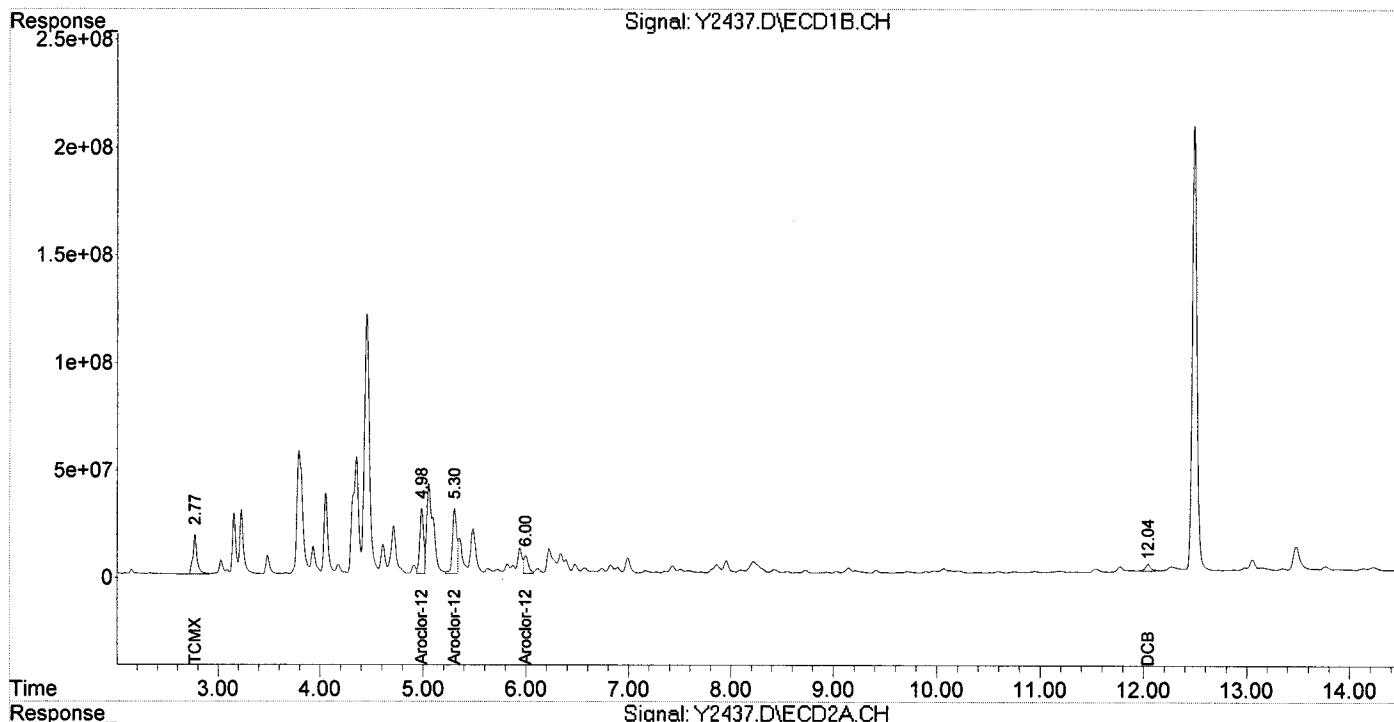
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-23-13\  
Data File : Y2437.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 23 Oct 2013 9:19  
Operator : NG  
Sample : HH-44(1.,E13-10227-013DL,S,5,36g,52.6,20  
Misc : 131021-05,10/21/13,10/15/13,10  
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 15:44:56 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2413.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 22:35  
 Operator : NG  
 Sample : FB-22,E13-10227-014,A,1000ml,100,5  
 Misc : 131021-17,10/21/13,10/15/13,1  
 ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 10:29:15 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3342.7E6	7124.0E6	181.053	193.986
Spiked Amount	200.000			Recovery	= 90.53%	96.99%
2) S DCB	12.04	12.48	926.2E6	2648.6E6	150.289	205.050 #
Spiked Amount	200.000			Recovery	= 75.14%	102.53%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

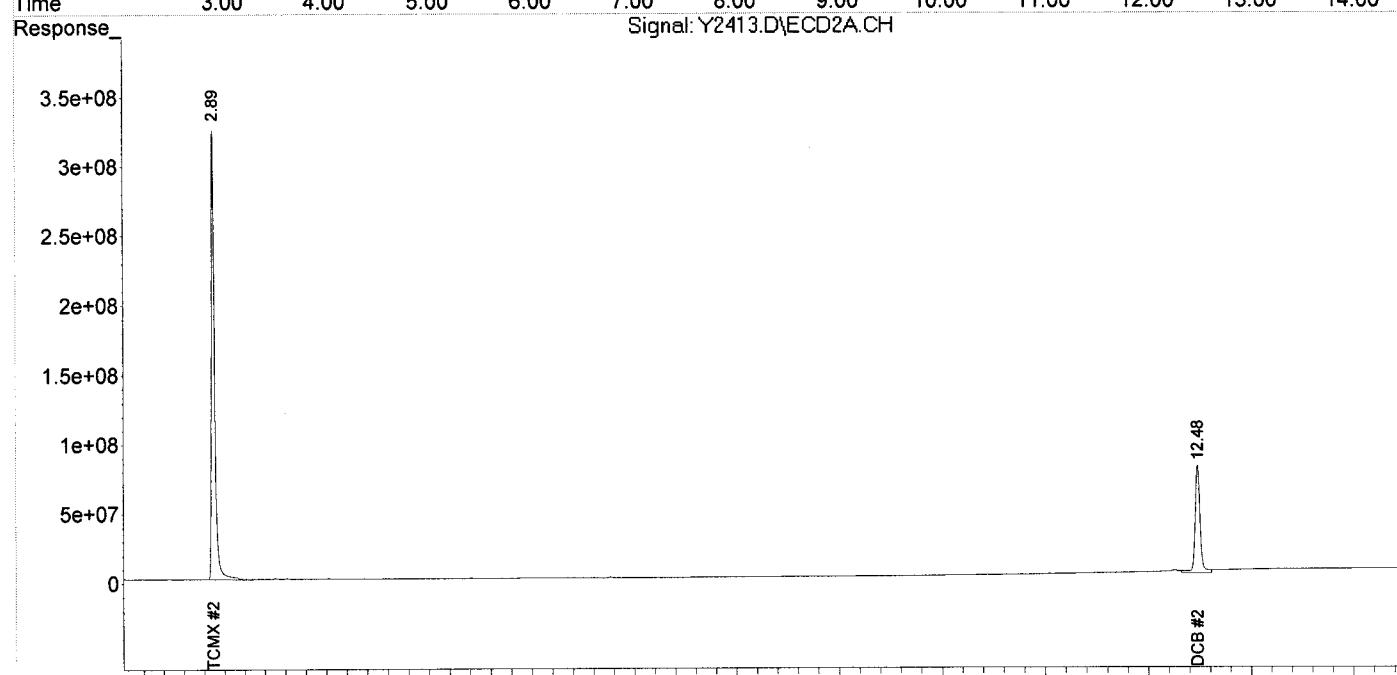
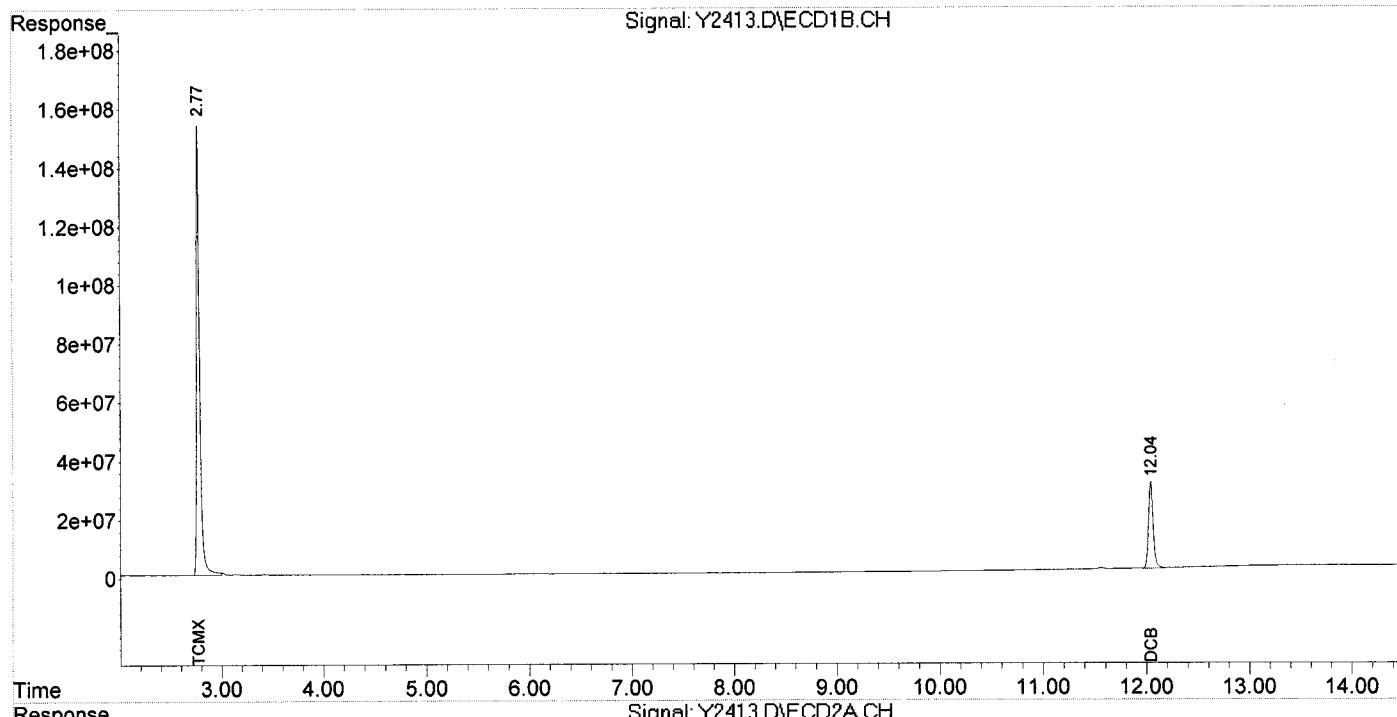
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2413.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 22:35  
Operator : NG  
Sample : FB-22.E13-10227-014.A,1000ml,100,5  
Misc : 131021-17,10/21/13,10/15/13,1  
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 10:29:15 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: BLKA131021-17

Client ID: PCB

Date Received: NA

Date Extracted: 10/21/2013

Date Analyzed: 10/22/2013

Data file: Y2409.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous- $\mu$ g/L (ppb)

Dilution Factor: 1

% Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
 Data File : Y2409.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 21:25  
 Operator : NG  
 Sample : PCB,BLKA131021-17,A,1000ml,100,5  
 Misc : NA,NA,NA,1  
 ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 23 10:27:23 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3254.0E6	6959.8E6	176.250	189.516
Spiked Amount	200.000		Recovery	=	88.13%	94.76%
2) S DCB	12.04	12.48	976.4E6	2314.3E6	158.429	179.170
Spiked Amount	200.000		Recovery	=	79.21%	89.58%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

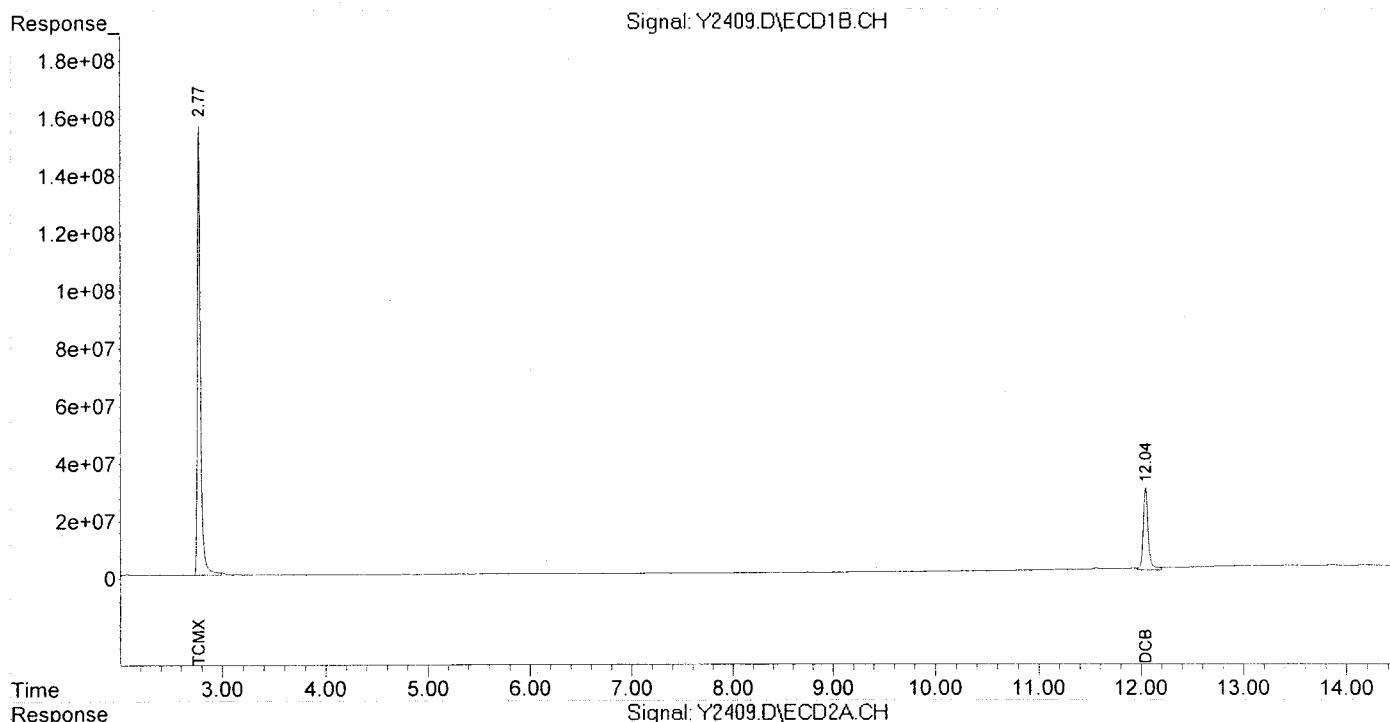
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-22-13\  
Data File : Y2409.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 21:25  
Operator : NG  
Sample : PCB.BLKA131021-17.A,1000ml,100,5  
Misc : NA,NA,NA,1  
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 23 10:27:23 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: BLKS131018-14

Client ID: PCB

Date Received: NA

Date Extracted: 10/18/2013

Date Analyzed: 10/21/2013

Data file: Y2342.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.00g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: NA

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2342.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 21 Oct 2013 21:32  
 Operator : NG  
 Sample : PCB.BLKS131018-14,S,5.00g,0.20  
 Misc : NA,NA,NA,1  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 09:20:46 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3296.7E6	6770.5E6	178.559	184.360
Spiked Amount	200.000			Recovery	= 89.28%	92.18%
2) S DCB	12.04	12.47	922.7E6	2351.1E6	149.722	182.016
Spiked Amount	200.000			Recovery	= 74.86%	91.01%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

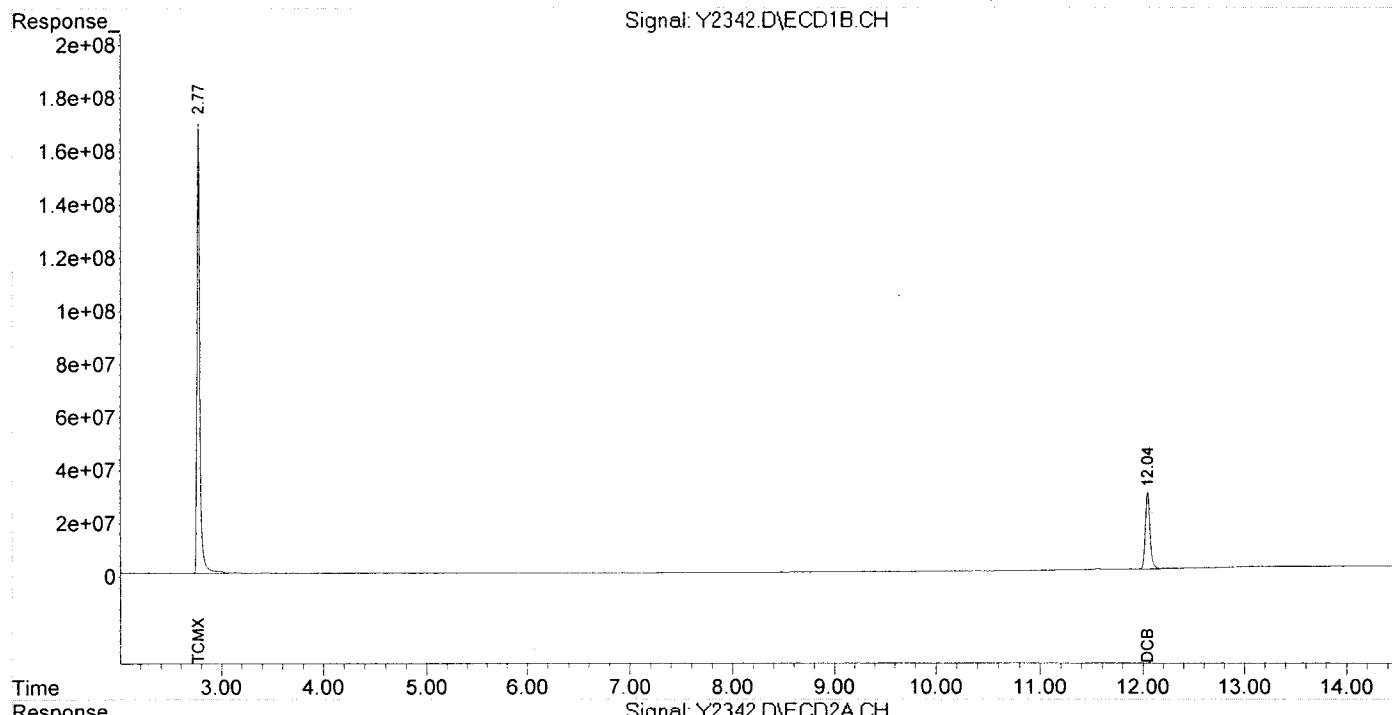
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2342.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 21 Oct 2013 21:32  
Operator : NG  
Sample : PCB.BLKS131018-14,S,5.00g,0,20  
Misc : NA,NA,NA,1  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 09:20:46 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES****PCB's**

Lab ID: BLKS131021-05

Client ID: PCB

Date Received: NA

Date Extracted: 10/21/2013

Date Analyzed: 10/22/2013

Data file: Y2367.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.00g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: NA

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL &amp; great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
 Data File : Y2367.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 22 Oct 2013 7:05  
 Operator : NG  
 Sample : PCB,BLKS131021-05,S,5.00g,0,20  
 Misc : NA,NA,NA,1  
 ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 22 11:44:58 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3563.1E6	7551.5E6	192.993	205.628
Spiked Amount	200.000		Recovery	=	96.50%	102.81%
2) S DCB	12.04	12.48	934.9E6	2407.7E6	151.689	186.398
Spiked Amount	200.000		Recovery	=	75.84%	93.20%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

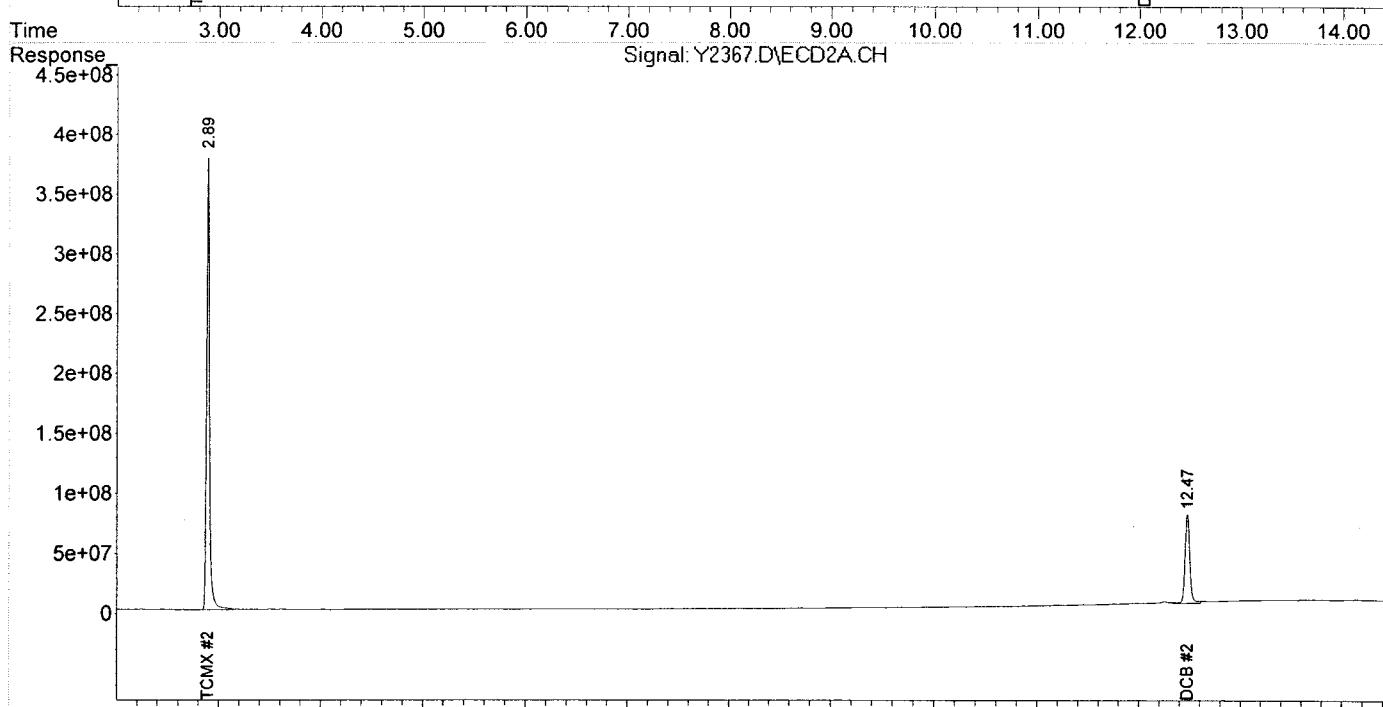
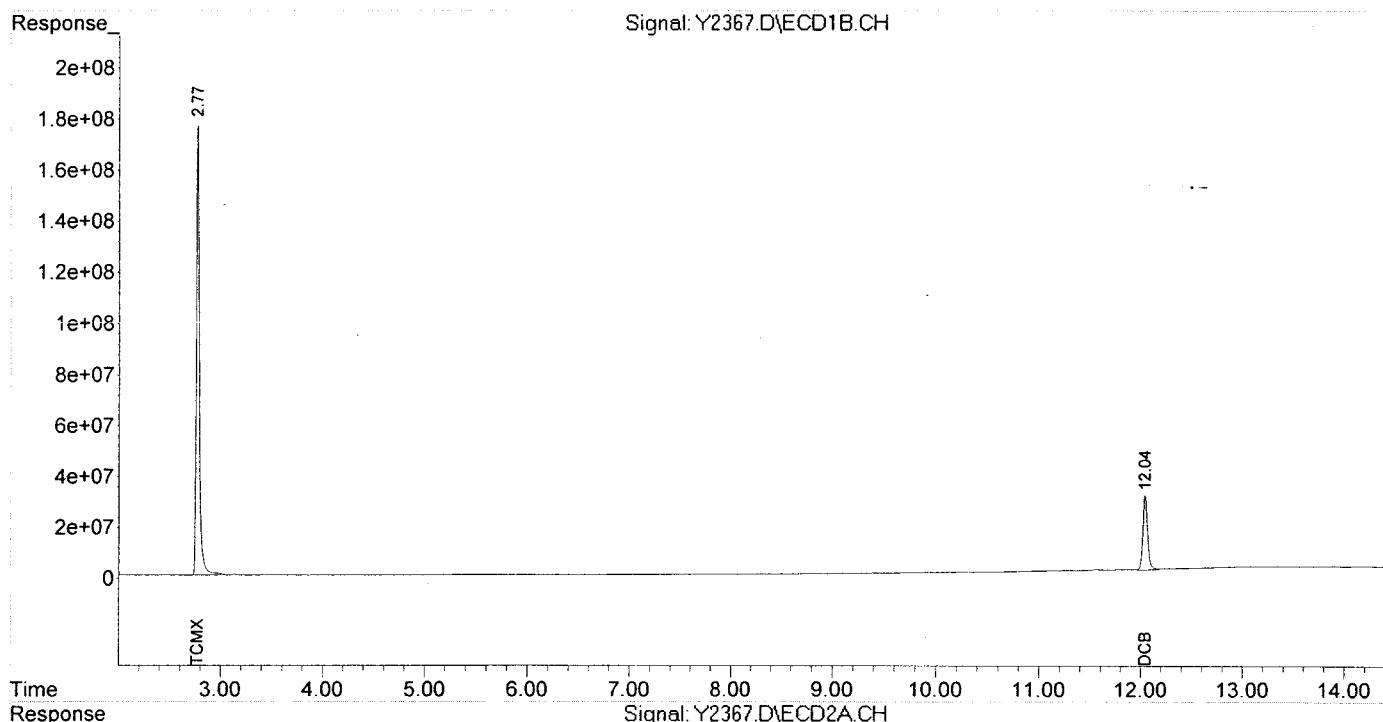
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

## Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-21-13\  
Data File : Y2367.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 22 Oct 2013 7:05  
Operator : NG  
Sample : PCB, BLKS131021-05, S, 5.00g, 0, 20  
Misc : NA,NA,NA,1  
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 22 11:44:58 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



## **SAMPLE TRACKING**



Integrated Analytical Labs  
273 Franklin Rd  
Randolph, NJ 07869

Contact Us: 973 361-4252  
fax: 973 989-5288  
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO		Turnaround Time (starts the following day if samples rec'd at lab > 5PM)										
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby		*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE										
Address: 2109 Bridge Ave., Bldg. B	Address:	same												
Point Pleasant, NJ 08742														
Telephone #: (732) 295-2144		Attn:												
Fax #: (732) 295-2150		FAX # (732) 295-2150												
Project Manager: James Clabby		INVOICE TO:	Aceto Corp.											
EMAIL Address: jclabby@jmceenvironmental.com		Address: 4 Tri Harbor Court												
Sampler: Steve Koech, Chris Cho		Port Washington, NY 11050												
Project Name: Arsynco		(with copy to: JMC Environmental (attn.: J. Clabby))												
Project Location (State): NJ		Attn: Ed Kelly												
Bottle Order #:		PO # 22126												
Quote #: SR041205		Sample Matrix												
DW - Drinking Water AQ - Aqueous WW - Waste Water														
OI - Oil LIQ - Liquid (Specify) OT - Other (Specify)														
S - Soil SL - Sludge SOL - Solid W - Wipe														
SAMPLE INFORMATION		ANALYTICAL PARAMETERS										# BOTTLES & PRESERVATIVES		
Client ID	Depth (ft only)	Sampling					PCP	HCl	HNO3	MOH	H2SO4	NAOH/NaCl	Sterile	
		Date	Time	Matrix	# container s	IAL #								
KK-32 (40-50)		10/15/13	9:50	S	1	1	x							
KK-37W (0-1-0)			10:09	S	1	2	x							
KK-37W (1-0-2-0)			10:10	S	1	3	x							
KK-37W (2-0-3-0)			10:11	S	1	4	x							
II-37E (2-0-3-0)			11:16	S	1	5	x							
II-43 (0-1-0)			12:15	S	1	6	x							
II-43 (1-0-2-0)			12:16	S	1	7	x							
GG-45 (0-1-0)	✓		1:55	S	1	8	x							
Known Hazard: Yes or No		Describe:		Conc. Expected:		Low	Med	High	MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)					

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one):  IAL Courier  Client Courier  FedEx/UPS

Signature/Company	Date	Time	Signature/Company	Date	Time
Relinquished by: <i>SK</i>	10/15/13	15:35	Received by: <i>JCL</i>	10/15/13	15:25
Relinquished by: <i>SK</i>	10/15/13	16:30	Received by: <i>JCL</i>	10/15/13	16:30
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Comments:

Lab Case #

10227 PAGE: 1 of 2

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK



Integrated Analytical Labs  
273 Franklin Rd  
Randolph, NJ 07069

Contact Us: 973 361-4252  
fax: 973 989-5288  
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO	
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby	
Address: 2109 Bridge Ave., Bldg. B	Address:	same	
Point Pleasant, NJ 08742			
Telephone #: (732) 295-2144		Attn:	
Fax #: (732) 295-2150		FAX # (732) 295-2150	
Project Manager: James Clabby		INVOICE TO: Aceto Corp.	
EMAIL Address: jclabby@jmcevironmental.com		Address: 4 Tri Harbor Court	
Sampler: Steve Kosch, Chris Cho		Port Washington, NY 11050	
Project Name: Arasynco		(with copy to: JMC Environmental (attn.: J. Clabby))	
Project Location (State): NJ		Attn: Ed Kelly	
Bottle Order #:		PO # 22126	
Quote #: SR041205		Sample Matrix	
DW - Drinking Water		AQ - Aqueous	
OI - Oil		WW - Waste Water	
LIQ - Liquid (Specify)		OT - Other (Specify)	
S - Soil		SL - Sludge	
SOL - Solid		W - Wipe	

#### SAMPLE INFORMATION

Client ID	Depth (ft only)	Sampling					PCB
		Date	Time	Matrix	# container s	IAL #	
GG-45 (1-0-20)		10/15/13	1:56	S	1	9	x
H14-45 (0-1-0)			2:12	S	1	10	x
H14-45 (1-0-20)			2:13	S	1	11	x
H14-44 (0-1-0)			2:26	S	1	12	x
H14-44 (1-0-20)			2:27	S	1	13	x
FB-22		↓	2:45	AQ	2	14	x

Known Hazard: Yes or No

Describe: Conc. Expected: Low Med High

MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one):  IAL Courier  Client Courier  FedEx/UPS

Signature/Company	Date	Time	Signature/Company	Date	Time
Relinquished by: <i>STH</i>	10/15/13	1525	Received by: <i>STH</i>	10/15/13	1525
Relinquished by: <i>STH</i>	10/15/13	1630	Received by: <i>STH</i>	10/15/13	1630
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Comments:

Lab Case #

10227

PAGE: 2 of 2

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

0107

## PROJECT INFORMATION

**E13-10227: ARSYNCO**

To: Jim Clabby  
 JMC Environmental Consultants  
 Fax: 1(732) 295-2150  
 EMail: jclabby@jmcenvironmental.com; ah

**Report To**

JMC Environmental Consultants  
 2109 Bridge Avenue  
 Building B  
 Point Pleasant, NJ 08742  
 Attn: Jim Clabby

**Bill To**

JMC Environmental Consultants  
 Aceto Corp.  
 4 Tri Harbor Court  
 Port Washington, NY 11050  
 Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Oct 15, 2013 @ 16:30	NA	Oct 29, 2013	Nov 05, 2013 *

\* Any *Conditional or Hold* status will delay final hardcopy report sent date.

**Diskette Req.** SRP TXT

**\*\* QC Requirement (must meet): NJ SRS**

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
10227-001	KK-32(4.0-5.0)	4.0/5.0	10/15/13@09:50	Soil	mg/Kg (ppm)	
10227-002	KK-37W(0-1.0)	0/1.0	10/15/13@10:09	Soil	mg/Kg (ppm)	
10227-003	KK-37W(1.0-2.0)	1.0/2.0	10/15/13@10:10	Soil	mg/Kg (ppm)	
10227-004	KK-37W(2.0-3.0)	2.0/3.0	10/15/13@10:11	Soil	mg/Kg (ppm)	
10227-005	HH-37E(2.0-3.0)	2.0/3.0	10/15/13@11:16	Soil	mg/Kg (ppm)	
10227-006	II-43(0-1.0)	0/1.0	10/15/13@12:15	Soil	mg/Kg (ppm)	
10227-007	II-43(1.0-2.0)	1.0/2.0	10/15/13@12:16	Soil	mg/Kg (ppm)	
10227-008	GG-45(0-1.0)	0/1.0	10/15/13@13:55	Soil	mg/Kg (ppm)	
10227-009	GG-45(1.0-2.0)	1.0/2.0	10/15/13@13:56	Soil	mg/Kg (ppm)	
10227-010	HH-45(0-1.0)	0/1.0	10/15/13@14:12	Soil	mg/Kg (ppm)	
10227-011	HH-45(1.0-2.0)	1.0/2.0	10/15/13@14:13	Soil	mg/Kg (ppm)	
10227-012	HH-44(0-1.0)	0/1.0	10/15/13@14:26	Soil	mg/Kg (ppm)	
10227-013	HH-44(1.0-2.0)	1.0/2.0	10/15/13@14:27	Soil	mg/Kg (ppm)	
10227-014	FB-22	NA	10/15/13@14:45	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
006	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
008	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
009	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013



# PROJECT INFORMATION

## E13-10227: ARSYNCO

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
010	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
011	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
012	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
013	TCL PCB	Analyze	8082A	STD/2 WKS	10/29/2013
014	TCL PCB	Analyze	8082A	STD/2 WKS	10/22/2013

273 Franklin Road  
 Randolph, NJ 07869  
 Phone: 973 361 4252  
 Fax: 973 989 5288

Page 2 of 2



IAL is a NELAP New Jersey Accredited Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Pennsylvania (68-00773) and West Virginia TO-15 and Method-18.

E13-10227 0109

## INTEGRATED ANALYTICAL LABORATORIES, LLC

## SAMPLE RECEIPT VERIFICATION

CASE NO: E 13

10227

CLIENT:

JMC

COOLER TEMPERATURE: 2° - 6°C: 

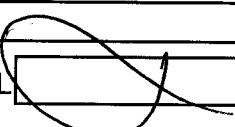
( See Chain of Custody)

Comments

COC: **COMPLETE** / INCOMPLETE  
KEY = YES/NA = NOVOA received:  Encore IGW - Methanol(check one)  Terra Core No Preservative Bottles Intact no-Missing Bottles no-Extra Bottles Sufficient Sample Volume no-headspace/bubbles in VOs Labels intact/correct pH Check (exclude VOs)<sup>1</sup> Correct bottles/preservative Sufficient Holding/Prep Time<sup>1</sup> Multiphasic Sample Sample to be Subcontracted Chain of Custody is Clear

<sup>1</sup> All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS: \_\_\_\_\_

SAMPLE(S) VERIFIED BY: INITIAL DATE **10/15/13**CORRECTIVE ACTION REQUIRED: YES 

(SEE BELOW)

NO If COC is **NOT** clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED:

YES  Date/ Time: \_\_\_\_\_ NO 

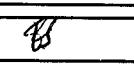
PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS: \_\_\_\_\_

VERIFIED/TAKEN BY:

INITIAL 

DATE

10/16

E13-1 REV02/2013 0110

# Laboratory Custody Chronicle

IAL Case No.

E13-10227

Client JMC Environmental Consultants

Project ARSYNCO

Received On 10/15/2013@16:30

**Department: GC**

			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
TCL PCB	10227-001	Soil	10/18/13	Archimede	10/21/13	Justyna
"	-002	"	10/18/13	Archimede	10/21/13	Justyna
"	-003	"	10/18/13	Archimede	10/21/13	Justyna
"	-004	"	10/18/13	Archimede	10/21/13	Justyna
"	-005	"	10/18/13	Archimede	10/21/13	Justyna
"	-006	"	10/18/13	Archimede	10/21/13	Justyna
"	-007	"	10/18/13	Archimede	10/21/13	Justyna
"	-008	"	10/18/13	Archimede	10/21/13	Justyna
"	-009	"	10/18/13	Archimede	10/21/13	Justyna
"	-010	"	10/18/13	Archimede	10/21/13	Justyna
"	-011	"	10/21/13	Archimede	10/22/13	Justyna
"	-012	"	10/21/13	Archimede	10/22/13	Justyna
"	-013	"	10/21/13	Archimede	10/22/13	Justyna
"	-014	Aqueous	10/21/13	Archimede	10/22/13	Justyna